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Product number (Link to product page)	Product name	Reference(s) (with link)
AS08 300	1 PEB (4x) protein extract...	Brouwer et al. (2011) TheImpact ofLightInt... Kosawang et al. (2011) Hydrogen yield from...
AS12 2119	14-3-3 GRF General regulator...	Barkla et al. (2016). Single-cell-type qua... Obroucheva (2017). Participation of Plasm...
AS04 051	2 Photosynthesis Tool Kit - ...	Morash et al. (2007) Macromolecular dynami... MacKenzie et al (2005). Large reallocation... Bouchard et al. (2006) UVB effects on the ...
AS09 409	2 Rubisco quantitation kit	Thamatrakoln et al. (2013). Death-specific... Mota et al. (2015). Effects of heavy metal... Sorrentino et al. (2018). Performance of t...
AS01 011	2 Set of 10 plant anti-Lhca ...	Pavlovič et al. (2016). A carnivorous sund... Xu et al. (2011). Light-harvesting chlorop... Yoshida et al. (2016). Hisabori T1.Two dis... Merry et al. (2017). A comparison of pine ... Li et al. (2017). NYEs/SGRs-mediated chlor...
AS01 011 CHLAMYD	2 Set of 4 Chlamydomonas ant...	Lhcb5 and Lhcbm5 - Takahashi et al. (2006)...
AS16 3981	2b protein [Cucumber mosaic vi...	Zhang et al (2006). Cucumber mosaic virus-...
AS10 706-100	3-nitroY Nitrotyrosine	Girault et al. (2001).Immunodetection of 3... Pfister et al. (2002). Inducible nitric ox... Gow et al. (2004).Biological significance ...
AS10 706-25	3-nitroY Nitrotyrosine (25 μ...	Girault et al. (2001).Immunodetection of 3... Pfister et al. (2002). Inducible nitric ox... Gow et al. (2004).Biological significance ...
AS10 708-100	8-Hydroxyguanosine DNA/RNA o...	Haigh and Drew (2015). Cavitation during t... Poborilova et al. (2015). DNA hypomethylat...
AS10 708-25	8-Hydroxyguanosine DNA/RNA o...	Haigh and Drew (2015). Cavitation during t... Poborilova et al. (2015). DNA hypomethylat...
AS08 281	95 kDa Lcm (phycobilisome - to...	Redlinger & Gantt (1982) A Mr 95,000 polyp... Redlinger & Gantt (1981). Phycobilisome st...
AS01 015	A1AGP Alpha-1-acid glycoprot...	Olofsson et al. (2002) Positional identifi... Olofsson et al. (2003) Identification and ...
AS07 272	A1i3 alpha-1-inhibitor 3	Kim et al. (2008) 2-D DIGE and MS/MS analy...
AS13 2670	A1M Human alpha-1-microglobu...	Olsson MG et al. (2013). The radical-bindi... Rutardottir et al. (2016). The cysteine 34...

AS09 446	ABA Abscisic acid (C1) (for ...	Lacuesta et al. (2013). Immunolocalization... Escandón et al. (2016). Integrated physiol... Ondzighi-Assoume et al. (2016). Environmen... Jesus et al. (2015). Salicylic acid applic... Kovaleva et al. (2017). ABA and IAA contro... Dinis et al. (2018). Kaolin modulates ABA ...
AS08 328	Abeta (1-42) Amyloid-beta pe...	Lindhagen-Persson et al. (2010). Amyloid-β...
AS12 1861	ABI1 Abscisic acid insensiti...	Mitula et al. (2015). Arabidopsis ABA-Acti...
AS12 1871	ABI2 Abscisic acid insensiti...	Mitula et al. (2015). Arabidopsis ABA-Acti...
AS11 1800	ACC 1-Aminocyclopropane-1-ca...	Serova et al. (2018). Early nodule senesce...
AS11 1783	ACD1 Accelerated cell death ...	Hirashima et al. (2009). Light-independent... Nagane et al. (2010). Involvement of AtNAP... Kim et al. (2013). Mutation of the Arabido...
AS10 707-25	Acetylated lysine (25 µl)	Vigushin & Coombes (2004). Targeted histon...
AS10 707-100	Acetylated Lysine (monoclonal)	Vigushin & Coombes (2004). Targeted histon...
AS09 521	ACO1 Aconitase	Birke et al. (2012). Cysteine biosynthesis... Setién et al. (2014). Root phosphoenolpyru... Rurek et al. (2018). Mitochondrial Biogene...
AS13 2640	ACT Actin	Qiu et al. (2015). Soy 14-3-3 protein SGF1... Buxa et al. (2015). Phytoplasma infection ... Zheng et al. (2014). iTRAQ-based quantitat... Shaw et al. (2015). β-aminobutyric acid me... Jespersen et al. (2017). Metabolic Effects...
AS16 3141	ACT Actin (monoclonal)	Kandasamy, M.K. et al. (2012). Plant veget... Sultan et al. (2017). The Reverse Transcri...
AS16 3139	ACT 1,3,4,12 Actin 1, 3, 4, ...	Kandasamy, M.K. et al. (1999). The late po... Kandasamy, M.K. et al. (2001). One plant a... Kandasamy, M.K. et al. (2012). Plant veget...
AS16 3140	ACT 2,8,11 Actin 2, 8, 11	Kandasamy, M.K., et al. (1999). The late p... Kandasamy, M.K., et al. (2001). One plant ... Kandasamy, M.K., et al. (2012). Plant vege...
AS10 702	Actin-11	Dmitrović et al. (2015). Essential oils of... Weits et al. (2014). Plant cysteine oxidas... Weiste and Dröge-Laser (2014). The Arabido... Deng et al. (2015). Proteomic analysis of ... Hashimoto et al. (2016). EXA1, a GYF domai... Zhao et al. (2017). MAP Kinase Cascades Re...
AS10 685	ADH Alcohol dehydrogenase (h...	Giuntoli et al. (2014). A trihelix DNA bin...
AS10 748	ADH/ALDH Alcohol/acetaldehyd...	Kukuczka et al. (2014). Proton Gradient Re... Laurenceau et al. (2015). Conserved Strept...

AS16 3155	ADK Adenylate kinase	Tükenmez et al. (2016). Linkage between Fi...
AS09 527	AGO1 Argonaute 1	Minoia et al. (2014). Specific Argonautes ... Pumplin et al. (2016). DNA Methylation Inf... Havecker et al. (2010). The Arabidopsis RNA... Dolata et al. (2016). Salt Stress Reveals ... Schalk et al. (2017). Small RNA-mediated r... Zhang et al. (2017). RISC-interacting clea... Bologna et al. (2018). Nucleo-cytosolic Sh...
AS09 527-100	AGO1 Argonaute 1 (100 µg)	Minoia et al. (2014). Specific Argonautes ... Pumplin et al. (2016). DNA Methylation Inf... Havecker et al. (2010). The Arabidopsis RNA... Dolata et al. (2016). Salt Stress Reveals ... Schalk et al. (2017). Small RNA-mediated r... Zhang et al. (2017). RISC-interacting clea...
AS09 617	AGO4 Argonaute 4	Havecker et al. (2010) The RNA-directed DN... Zhang et al. (2013). DTF1 is a core compon... Han et al. (2014). SUV2 is involved in tr... Zhai et al. (2015). A One Precursor One si... Li et al. (2016). Biogenesis of phased siR... Yang et al. (2017). The developmental regu...
AS09 617-1mg	AGO4 Argonaute 4 (1mg)	Havecker et al. (2010) The RNA-directed DN... Zhang et al. (2013). DTF1 is a core compon... Han et al. (2014). SUV2 is involved in tr... Zhai et al. (2015). A One Precursor One si...
AS10 672	AGO6 Argonaute 6	Havecker, E.R., Wallbridge, L.M., Hardcast...
AS10 673	AGO9 Argonaute 9	Havecker et al. (2010) The RNA-directed DN... Su et al. (2017). The THO Complex Non-Cell...
AS10 1353	A-I apolipoprotein A1	Teixeira et al. (2014). Definition of huma...
AS09 463	AKIN β gamma	Emanuelle et al. (2015). SnRK1 from Arabid...
AS10 919	AKIN10 SNF1-related protein ...	Rodrigues et al. (2013). ABI1 and PP2CA Ph... Emanuelle et al. (2015). SnRK1 from Arabid... Castro et al. (2015). SIZ1-Dependent Post-... Chan et al. (2017). SnRK1 phosphorylation ... https://doi.org/10.1093/jxb/erx233 . Nukarinen et al. (2016). Quantitative phos...
AS10 920	AKIN11 SNF1-related protein ...	Emanuelle et al. (2015). SnRK1 from Arabid...
AS09 460	AKINB1 SNF1-related protein ...	Emanuelle et al. (2015). SnRK1 from Arabid...
AS09 462	AKINB2 SNF1-related protein ...	Emanuelle et al. (2015). SnRK1 from Arabid...
AS09 613	AKING1 SNF1-related protein ...	Ramon et al. (2013). The hybrid Four-CBS-D... Emanuelle et al. (2015). SnRK1 from Arabid...

AS09 516	AKT1 Potassium channel AKT1	Safiarian et al. (2015). Lost in traffic? ... Honsbein et al. (2009). A tripartite SNARE...
AS08 294	ALD Fructose-1,6 bisphosphat...	Vera-Estrella et al. (2014). Comparative 2... Dixit (2015). Sulfur alleviates arsenic to... Wang et al. (2018). iTRAQ-based quantitati... Yam et al. (2016). Characterization of the... Foley et al. (2017). A Global View of RNA-... Kamies et al. (2017). A Proteomic Approach... Parveen et al. (2016). Chickpea Ferritin C...
AS10 698	Alkaline lipase (glyoxysomal l...	Patui et al. (2014). Lipase activity and a...
AS01 014	AMBP Alpha-1-microglobulin	Sanchez et al. (2002) Expression of the AM... Ostendorf et al. (2006) Antagonism of PDGF... Wen et al. (2017). MicroRNA-148b regulates...
AS01 013	AMBP Alpha-1-microglobulin (...)	Yokota et al. (2007) Absence of increased ... Olsson et al. (2008). The lipocalin alpha1...
AS06 173	AMBP Bikunin (50 µl)	Olsson et al. (2007) Up-regulation of alph...
AS04 040	AMBP Bikunin (mouse antibody...	Sánchez et al. (2002). Expression of the A...
AS10 932	Amyloid beta oligomer-specific...	Richman et al. (2013). In Vitro and Mechan... Lindhagen-Persson et al. (2010). Amyloid-β... Zhao et al. (2016). Antiamyloidogenic Acti... Kumar et al. (2017). Foldamer-Mediated Str...
AS10 932B	Amyloid beta oligomer-specific...	Richman et al. (2013). In Vitro and Mechan... Lindhagen-Persson et al. (2010). Amyloid-β...
AS06 184	AO Apoplastic ascorbate oxid...	Kielbowicz et al. (2008) The organ-depende...
AS06 152	AOX1 Algal Alternative oxida...	Inman (2013). Characterization of the Alte... Dang et al. (2014). Combined Increases in ... Zalutskaya et al. (2015). The Chlamydomona... Bohne et al. (2013). Reciprocal Regulation...
AS04 054	AOX1/2 Plant alternative oxi...	Zhao et al. (2016). Nitrogen deprivation i... Konert et al.(2015). Protein phosphatase 2... Pavlovič et al. (2016). Light-induced grad... Meng et al. (2016). Physiological and prot... Zhang et al. (2016). A High Temperature-De... Solti et al. (2016). Does a voltage-sensit... Garmash et al. (2017). Expression profiles... Vishwakarma et al. (2016). A discrete role...

AS08 277	APC allophycocyanin alpha an...	Gantt & Lipschultz (1974). Phycobilisome s... Hernandez-Prieto et al. (2011). The small ... Gunnelius et al. (2014). The omega subunit... Gantt & Lipschultz (1974). Phycobilisomes ... Gandini et al. (2017). The transporter Syn... Ge et al. (2017). Translating Divergent En...
AS08 368	APX L-ascorbate peroxidase	Sobrino-Plata et al. (2014). Glutathione i... Feifei et al. (2014). Comparison of Leaf P... Parys et al. (2014). Metabolic Responses t... Vuleta et al. (2016). Adaptive flexibility... Hattab et al. (2015). Characterisation of ... Cunha et al. (2016). Salinity and osmotic ... Ko et al. (2016). Constitutive expression ... Yin et al. (2016). Comprehensive Mitochond...
AS08 325	ARF1 ADP-ribosylation factor...	Yüzbaşıoğlu et al. (2016). Functional spec... Wang et al. (2015). UDP-D-galactose synthe... Marais et al. (2015). The Qb-SNARE Memb11 ... Ma et al. (2016). Phosphatidylserine Synth... Lynch et al. (2017). Multifaceted plant re... Vincent et al. (2017). A genome-scale anal...
AS15 3083	ARSA targeting of tail-anchored...	Formigheri et al. (2013). Biogenesis of ph...
AS14 2816	ASH1 Histone-lysine N-methyl...	Lee et al. (2015). Genome-wide activities ... Kahn et al. (2016). Interdependence of PRC...
AS08 288	ASNA1 Arsenical pump-driving...	Hemmingsson et al. (2009) ASNA1, an ATPase...
AS08 323	ASY1 Asynaptic phenotype pro...	Boden et al. (2007). Expression and functi...
AS13 2717	ASyO2 Mouse anti-human alpha...	Brännström et al. (2014). A Generic Method...
AS13 2717B	ASyO2-biotinylated Mouse ant...	Brännström et al. (2014). A Generic Method...
AS13 2718	ASyO5 Mouse anti-human alpha...	Brännström et al. (2014). A Generic Method... Svarcbahs et al. (2016). Inhibition of P... Wu et al. (2017). The critical role of Nra...
AS13 2718B	ASyO5-biotinylated Mouse an...	Brännström et al. (2014). A Generic Method...
AS09 483	AtCCaP1 vacuolar calcium-bin...	Ide et al. (2007). Transcriptional Inducti...
AS15 2831	ATG4 Autophagy protein 4	Chen et al. (2016). The role of nitric oxi... Pérez-Pérez et al. (2016). Control of Auto...
AS14 2769	ATG8 Autophagy-related prote...	Gorovits et al. (2016). Tomato yellow leaf... Chen et al. (2016). The role of nitric oxi...

AS08 304	AtpA Alpha subunit of ATP sy...	Camejo et al. (2015). Proteomic identifica... Yang et al. (2015). Purification and bioch... Murcha et al. (2016). Plant specific Prepr... Zhang et al. (2017). Nitric oxide induces ... Jeon et al. (2017). Functional characteriz... Pao et al. (2018). Lamelloplasts and minic...
AS08 370	ATPase ATP synthase, whole e...	Liu et al. (2011). Identification of diffe... Du et al. (2018). Galactoglycerolipid Lipa...
AS03 030	AtpB Beta subunit of ATP syn...	Quesada et al. (2011). Arabidopsis RUGOSA2... Morash et al. (2007). Macromolecular dynam... Andersson et. al (2009). Co-localization o...
AS05 085	AtpB Beta subunit of ATP syn...	Heinrickel et al. (2016). Tetratricopeptid... Jallet et al. (2016). Photosynthetic physi... Ferroni et al. (2016). Light acclimation i... Li et al. (2016). Characterization of a no... Jiang et al. (2017). IFT57 stabilizes the ... Nikolova et al. (2017). Temperature induce... Cantrell and Peers (2017). A mutant of Chl... Fu et al. (2017). Intracellular spectral r... Kanget al. (2017). Increased lipid product... Wang and Auwerx (2017). Systems Phytohormo... Shin et al. (2017), Complementation of a m... Atkins and Cross (2018). Inter-Regulation ...
AS05 085-10	AtpB Beta subunit of ATP syn...	Heinrickel et al. (2013). Novel thylakoid ... Rasala et al. (2013). Expanding the spectr... Lintala et al. (2013). Arabidopsis tic62 t... Eom et al. (2014). Bacillus subtilis HJ18-... Rurek et al. (2015). Biogenesis of mitocho... Teng et al. (2013). Mitochondrial Genes of... Jespersen et al. (2017). Metabolic Effects...
AS03 030S	AtpB Positive control/quantit...	Fraser et al. (2013). Photophysiological a...
AS08 312	AtpC Gamma subunit of ATP sy...	Dwyer et al. (2012). Antisense reductions ... Naranjo et al. (2015). The chloroplast NAD... doi.org/10.1101/261560 Nikkanen et al. (2018). Regulation of chlo...
AS10 931	AtPCaP1 Arabidopsis thaliana...	Ide et al. (2007) Molecular properties of ... Nagasaki et al. (2008) A hydrophilic catio...
AS10 1604	AtpF CF0I subunit of ATP syn...	Yap at al. (2015). AEF1/MPR25 is implicate... Grieco et al. (2015). Light-harvesting II ... Rantala and Tikkanen et al. (2018). Phosph...

AS05 071	AtpH ATP synthase subunit c,...	Lawrence et al. (2010). Recombinant produc... Nath et al. (2016). A Nitrogen-Fixing Subu...
AS09 591	AtpH ATP synthase subunit c,...	Schulz et al. (2017). Molecular architectu...
AS12 1858	BAK1 Brassinosteroid insensi...	Tateda et al. (2014). Salicylic Acid Regul... Bundy et al. (2016). A mutation in the cat... Hu et al. (2018). A group of receptor kina...
AS09 380	BAM Beta-amylase, Biotin con...	Usuldin et al. (2017). Molecular investiga...
AS11 1737	Beta-CA1, beta-CA2 carbonic ...	Tirumani et al. (2014). Regulation of CCM ... Muranaka et al. (2015). TEF30 interacts wi... Renberg et al. (2010). A Metabolomic Appro...
AS09 481	BiP Lumenal-binding protein ...	Lomin et al. (2017). Studies of cytokinin ... Je et al. (2016). Signaling from maize org... Zhang et al. (2017). Control of secondary ... Nagel et al. (2017). Arabidopsis SH3P2 is ... Mares et al. (2017). Proteomic analysis du... Gelová et al. (2017). Antibody-mediated mo...
AS09 481-100	BiP Lumenal-binding protein ...	Sulimanet al. (2013). Cell Polarity and Pa... Bommert et al. (2013). The maize Gα gene C... Ivanov et al. (2014). SORTING NEXIN1 Is Re... Hu et al. (2015). Re-examination of chloro...
AS09 614	BiP Lumenal-binding protein ...	Bennett et al. (2014). Plasma Membrane-Tar...
AS09 615	BiP Lumenal-binding protein ...	Narusaka et al (2016). Leucine zipper moti...
AS08 279	b-PE Phycoerythrobilin	Gantt & Lipschultz (1974). Phycobilisomes... Usuldin et al. (2017). Molecular investiga...
AS08 280	B-PE phycoerythrobilin and p...	Gantt & Lipschultz (1974). Phycobilisomes...
AS05 073	CAH3 Carbonic anhydrase	Shutova et al. (2008). The photosystem II-... Tirumani et al. (2014). Regulation of CCM ... Mitchell et al. (2014). Dynamics of carbon... Correa-Galvis et al. (2016). Photosystem I...
AS06 180	cAPX Ascorbate peroxidase (c...	Tsaniklidis et al. (2013). L-Ascorbic acid... Terrile et al. (2014). Nitric oxide-mediat... Aroca et al. (2015). S-sulfhydration: a ne... Ferrer et al. (2018). Differential Pb tole...

AS09 501	Cat Catalase (peroxisomal ma...	Lee et al. (2016). Superoxide serves as a ... Yin et al. (2016). Comprehensive Mitochond... Sultan et al. (2017). The Reverse Transcri... Dauphinee et al. (2017). Remodelling of la... Zhang et al. (2017). Global analysis of pr... Kneeshaw et al. (2017). Nucleoredoxin guar... Mares et al. (2017). Proteomic analysis du... Kang et al. (2018). Autophagy-related (ATG... Su et al. (2018). The Arabidopsis catalase...
AS09 501-100	Cat Catalase (peroxisomal ma...	Blume et al. (2013).A possible role for th... Li et al. (2013). LESION SIMULATING DISEAS... Pilati et al. (2014). The onset of grapevi... Kataya et al. (2015). Protein Phosphatase ... Marok et al. (2013). A drought-sensitive b...
AS09 530	CBP20 nuclear cap-binding pr...	Raczynska et al. (2013). TheSERRATEprotein...
AS09 531	CBP80 nuclear cap-binding pr...	Raczynska et al. (2013). TheSERRATEprotein... Foley et al. (2017). A Global View of RNA-...
AS07 219	CCS Chloroplastic copper cha...	Abdel-Ghany et al (2005). .AtCCS is a func... Speth et al. (2013). RACK1 scaffold protei...
AS06 153	CDC2 Cell-division-cycle kin...	Syu et al. (2014). Impacts of size and sha...
AS06 179	CDJ1 chloroplast DnaJ homolo...	Willmund et al (2008). The chloroplast Dna...
AS12 2582	CesA4 (IRX5) Cellulose synth...	Tsuchiya et al. (2015). Distribution of XT... Otulak-Kozielec et al. (2018). Plant Cell Wa...
AS12 2581	CesA7 (IRX3) Cellulose synt...	Tsuchiya et al. (2015). Distribution of XT...
AS12 2580	CesA8 (IRX1) Cellulose synt...	Tsuchiya et al. (2015). Distribution of XT... Zhang et al. (2016). Golgi-localized STELL...
AS04 043	cFBPase Cytosolic fructose-1...	LaMontagne et al. (2016). Isolation of Mic... de Michele et al. (2016). Free-Flow Electr... Seguel et al. (2018). PROHIBITIN 3 forms c... Ma et al. (2016). Phosphatidylserine Synth... Xing et al. (2016). Proteome Profile of St... Duan et al. (2017). A Lipid-Anchored NAC T... Lynch et al. (2017). Multifaceted plant re... Steffens et al. (2017). Physical, Function...
AS06 176	CGE1 Alfa-CGE1, chloroplasti...	Schroda et al. (2001) The chloroplastic Gr...
AS12 1853	CGL160 Conserved in green l...	Fristedt et al. (2015). The Thylakoid Memb...
AS10 936	CGL78 YCF54	Hsieh et al. (2013). The Proteome of Coppe...
AS10 831	Chicken anti-Rabbit IgG (H&L),...	Kovaleva et al. (2017). Regulation of Petu...
AS12 2615	CHS Chalcone synthase	Nabbie et al. (2017). Lambda Protein Affec...

AS10 690	Clathrin heavy-chain 1,2	McLoughlin et al. (2013). Identification o... Grones et al. (2015). Auxin-binding pocket... Derbyshire et al. (2015). Proteomic Analys... Wattelet-Boyer et al. (2016). Enrichment o...
AS16 4039	ClpB1 Chaperone protein ClpB1...	Porankiewicz and Clarke (1997). Induction ...
AS16 4040	ClpB2 Chaperone protein ClpB...	Eriksson et al. (2001). Novel form of ClpB...
AS09 459	ClpB-P ClpB3	Han et al. (2015). A nuclear-encoded chlor...
AS01 001	ClpC Chloroplastic form of H...	Karradt et al. (2008) NblA, a Key Protein ... Rosano et al. (2011). Insights into the Cl... Hu et al. (2015). Site-specific Nitrosopro... Porankiewicz & Clarke (1997) Induction of ...
AS16 4048	ClpD Chaperone protein ClpD,...	Zheng et al. (2002). Characterization of C...
AS16 4041	ClpP1 ATP-dependent Clp prot...	Schelin et al. (2002). The clpP multigene ...
AS16 4049	ClpP1 ATP-dependent Clp prot...	Zheng et al. (2002). Characterization of C...
AS16 4042	ClpP2 ATP-dependent Clp prot...	Schelin et al. (2002). The clpP multigene ...
AS16 4043	ClpP3 ATP-dependent Clp prot...	Schelin et al. (2002). The clpP multigene ...
AS16 4050	ClpP3 ATP-dependent Clp prot...	Zheng et al. (2002). Characterization of C...
AS16 4051	ClpP4 ATP-dependent Clp prot...	Zheng et al. (2002). Characterization of C...
AS16 4052	ClpP5 ATP-dependent Clp prot...	Zheng et al. (2002). Characterization of C...
AS16 4053	ClpP6 ATP-dependent Clp prot...	Zheng et al. (2002). Characterization of C...
AS13 2655	ClpP6 chloroplast ClpP6 prot...	Zheng et al. (2002). Characterization of C...
AS16 4044	ClpR Putative ATP-dependent ...	Stanne et al. (2007). Distinctive types of...
AS16 4054	ClpR1 ATP-dependent Clp prot...	Sjögren et al. (2004). Inactivation of the...
AS16 4055	ClpR2 ATP-dependent Clp prot...	Sjögren et al. (2004). Inactivation of the...
AS16 4056	ClpR3 ATP-dependent Clp prot...	Sjögren et al. (2004). Inactivation of the...
AS16 4057	ClpR4 ATP-dependent Clp prot...	Sjögren et al. (2004). Inactivation of the...
AS16 4045	ClpS1 ATP-dependent Clp prot...	Stanne et al. (2007). Distinctive types of...
AS16 4046	ClpS2 ATP-dependent Clp prot...	Tryggvesson et al. (2015). Characterizatio...
AS16 4058	ClpT1 ATP-dependent Clp prot...	Sjögren et al. (2004). Inactivation of the...
AS16 4047	ClpX ATP-dependent Clp prote...	Schelin et al. (2002). The clpP multigene ...
AS09 601	c-Myc	Baumgardt et al. (2009). Neuronal subtype ...
AS12 2365	CNX1/2 CALNEXIN HOMOLOG 1/2	LaMontagne et al. (2016). Isolation of Mic... Howden et al. (2017), Quantitative analysi... Foley et al. (2017). A Global View of RNA-...
IMS01-031-305	CO4c Complement component...	Bidula et al. (2013). The role of ficolin-...
AS08 335	Conglutin gamma lupin-specif...	Czubiński et al. (2015). Digestion suscept... Foley et al. (2015). Analysis of conglutin...
AS13 2713	CoQ2 homolog 4-hydroxybenzoa...	López-Martín et al. (2007). Missense mutat... Parrado-Fernández et al. (2011). Calorie r...
AS05 076	CoQ7 Coenzyme Q biosynthesis...	Arroyo et al. (2006) Coenzyme Q is irrepla...

AS06 169	COR14b Cor14b-encoded cold r...	Rapacz et al. (2008). The effect of cold a...
AS04 053A-200	COXII Cytochrome oxidase sub...	Mika et al. (2010). Membrane-bound guaiaco... Leroch et al (2008). Identification of a n... Lang, E.G.E., S.J. Mueller, S.N.W. Hoernst...
AS04 053A	COXII Plant Cytochrome oxida...	Pavlovič et al. (2016). Light-induced grad... Schimmeyer et al. (2016). L-Galactono-1,4-... Li et al. (2016). Characterization of a no... Weißenberger et al. (2017). The PPR protei... Cai et al. (2017). Emp10 encodes a mitocho... Garmash et al. (2017). Expression profiles... Nagel et al. (2017). Arabidopsis SH3P2 is ... Dai et al. (2018). Maize Dek37 Encodes a P...
AS06 151	COXIIB Algal Cytochrome oxid...	Johnson et al. (2014). Proton Gradient Reg... Dang et al. (2014). Combined Increases in ... Kropat et al. (2015). Copper economy in Ch... Schulz-Raffelt et al. (2016). Hyper-accumu... Volgusheva et al. (2017). Comparative anal... Uhmeyer et al. (2017). Impaired Mitochondr... Jokel et al. (2018). Hunting the main play...
AS06 111	CP43' IsiA homolog of plant ...	Fraser et al. (2013). Photophysiological a... Hakkila et al. (2013). Group 2 sigma facto... Selão et al. (2014). Subcellular Localizat... Cheng and He (2014). PfsR Is a Key Regulat... Xing et al. (2017). Deletion of CGLD1 Impa... Li et al. (2017). The identification of Is...
AS10 111S	CP43' IsiA homolog of plant ...	Ryan-Keogh et al. (2012). Iron deficiency... Fraser et al. (2013). Photophysiological a...
AS14 2768	CPT6 cis-prenyltransferase 6...	Surmacz et al. (2014). cis-Prenyltransfera...
AS06 123	CPX1 coproporphyrinogen III ...	Quinn et al. (1999) Induction of Coproporp... Lang et al. (2011). Simultaneous isolation ...
AS06 122	CRD1 Cyanobacterial homolog ...	Canniffe et al. (2014). Elucidation of the...
AS12 1875	CrPDAT1 Phospholipid: diacyl...	Yoon et al (2012). Phospholipid:Diacylglyc...
AS06 170	CSD2 Chloroplastic Cu/Zn sup...	Huey-wen et al. (2014). Harpin Protein, an... Momčilović et al. (2014). Improved procedu... Dmitrović et al. (2015). Essential oils of... Tuteja et al. (2015). Heterologous express... Parys et al. (2014). Metabolic Responses t... Vuleta et al. (2016). Adaptive flexibility... Witzel et al. (2017). Temporal impact of t...

AS08 298	CSP41b ribosome associated e...	Hassidim et al. (2007). Mutations in CHLOR... Beligni & Mayfield (2008). Arabidopsis tha... Lang et al. (2011). Simultaneous isolation ...
AS10 652	Cu/ZnSOD Cu/Zn superoxide di...	Alché et al. (1998). Identification and im...
AS08 316	CURT1A Curvature thylakoid 1...	Armbruster et al. (2013). Arabidopsis CURV...
AS08 343A	Cyt c Cytochrome c	Schimmeyer et al. (2016). L-Galactono-1,4-... Li et al. (2016). Characterization of a no... Opalińska et al. (2017). Identification of... Dai et al. (2018). Maize Dek37 Encodes a P... Rurek et al. (2018). Mitochondrial Biogene...
AS06 202	Cyt c6 Thylakoid lumen cytch...	Kropat et al. (2015). Copper economy in Ch... Merchant et al. (1998) Copper-Responsive G...
AS06 119	Cyt f Cytochrome f protein (...)	Hojka et al. (2014). Inducible repression ... Dang et al. (2014). Combined Increases in ... Charuvi et al. (2015). Photoprotection Con... Suorsa et al. (2015). Light acclimation in... Ferroni et al. (2016). Light acclimation i... Tyuereva et al. (2017). The absence of chl... Zou et al. (2017). An Animal-Like Cryptoch... Georg et al. (2017). Acclimation of Oxygen... Du et al. (2018). Galactoglycerolipid Lipa... Jokel et al. (2018). Hunting the main play...
AS08 306	Cyt f Cytochrome f protein (...)	Renato et al. (2014). Tomato fruit chromop... Liu and Last (2015). A land plant-specific... Dahal et al. (2015). Improved photosynthet... Pavlovič et al. (2016). Light-induced grad... Heinnickel et al. (2016). Tetratricopeptid... Rantala and Tikkanen et al. (2018). Phosph...
AS12 2102	DCL1 Dicer-like protein 1	Francisco-Mangilet et al. (2015). THO2, co... Li et al. (2016). Intron Lariat RNA Inhibi... Yoshikawa (2016). Pre-microRNA processing ... Su et al. (2017). The Protein Phosphatase ...
AS07 246	Deg1 chloroplastic DegP-type...	Zienkiewicz et al. (2013). Light intensity...
AS10 711	DEG15 Endopeptidase (peroxis...	Helm et al. (2007). Dual specificities of ... Schuhmann et al. (2008). The DEG15 serine ...
AS10 703	Deg5 protease Do-like 5, chl...	Malnoë et al. (2014). Thylakoid FtsH Prote...
AS11 1756	DegP7 protease Do-like 7	Schuhmann et al. (2011). A new principle o...

AS07 206	Dehydrin	Jedrowski et al. (2014). Comparative analy... Kjellsen et al. (2013). Dehydrin accumulat... Petrov et al. (2011). Woody plants of Yaku... Tatarinova et al. (2018). Dehydrins in Bud... Tatarinova et al. (2017). Dehydrin stress ... Jespersen et al. (2017). Metabolic Effects...
AS07 206A	Dehydrin (affinity purified)	Goñi et al. (2018). Ascophyllum nodosum ex...
AS15 3082	DET1 Regulator of the protea...	Castells et al (2011). The conserved facto...
AS12 1874	DGAT2A Acyl-CoA: Diacylglyce...	Liu et al. (2016). A simple and reproducib... Wase et al. (2015). Phenotypic screening i...
AS11 1746	DHAR1 Dehydroascorbate Reduc...	Wang et al. (2014). Proteomic analysis of ... Witzel et al. (2017). Temporal impact of t...
AS11 1747	DHAR2 Dehydroascorbate Reduc...	Grefen et al. (2009). The determination of...
AS11 1632	DMPO DMPO nitron adduct	Chatterjee et al. (2009). Immuno-spin trap...
AS15 3072	DnaJ (Yersinia pseudotuberculo...	Costa et al. (2015). Type III secretion tr...
AS07 271	DnaJ prokaryotic heat shock ...	Göhre et al. (2006). One of Two Alb3 Prote...
AS07 270	DnaK chloroplast stromal cha...	Göhre et al. (2006). One of Two Alb3 Prote...
AS11 1654	DON Deoxynivalenol, Serum (0...	Ivanova et al. (2017). Role of P-glycoprot...
AS12 1997	Donkey anti-Goat IgG (H&L), Dy...	Ainla et al. (2013). Lab on a Biomembrane:...
AS10 1201	Donkey anti-Mouse IgG (H&L), D...	Maurya et al. (2017). Hedgehog signaling r...
AS10 1008	Donkey anti-Rabbit IgG (H&L), ...	Petersen and Andersen (2014). Simultaneous...
AS10 1299	Donkey anti-Rabbit IgG (H&L), ...	Kozieł et al. (2017). Subcellular localiza...
AS10 841	Donkey anti-Rabbit IgG (H&L), ...	Kay et al. (2014). Elevations in Th2-initi...
AS10 949	Donkey anti-Rat IgG (H&L), DyL...	Calvo-Polanco et al. (2014). Mild Salt Str...
AS01 012	DS5a Drosophila 26S proteaso...	Lundgren et al. (2003). Use of RNA interfe... Nguyen et al (2012). Anupstreamregulator o...
AS10 935	Dsp Death-specific protein	Thamatrakoln et al. (2013). Death-specific...
AS15 3036	DYKDDDDK (binds to Sigma FLAG® ...	Wardhan et al. (2017). Chickpea transcript...
AS10 934	eEF1a Elongation factor 1-al...	Foley et al. (2017). A Global View of RNA-...
AS07 265	eEF1b Elongation factor 1-be...	Lázaro-Mixteco et al. (2012). The Absence ...
AS11 1633	EF1A Elongation factor 1-alp...	Wang et al. (2016). GOLGI TRANSPORT 1B Reg...
AS03 036	Elip2 Early light inducible ...	Andersson et al. (2003). Light stress-indu... Heddad & Adamska (2000). Light stress-regu... Yao et al. (2015). Ultraviolet-B protectio...
AS10 651	Enolase	Chen et al.(2009) System analysis of an Ar...
AS16 3119	EPSP synthase 3-phosphoshiki...	Fernández-Escalada et al. (2016). Characte...
AS05 056	ExoS Exoenzyme S	Anantharajah et al. (2016). Inhibition of ... Anantharajah et al. (2017). Salicylidene a...
AS16 4093	FBA Fructose-bisphosphate al...	Perlikowski et al. (2016). Water deficit a...
AS17 4116	FCP Fucoxanthin Chla/c prote...	Bentley et al. (2005). Investigation of PSI-...

AS11 1757	Fd Ferredoxin 1 (chloroplast...	Terrauchi et al. (2009). Pattern of expres...
AS06 121	FDX1 Ferredoxin	Higuchi et al. (2011). Modulation of macro... Hu et al. (2017). The SUFBC2 D Complex is ... Georg et al. (2017). Acclimation of Oxygen... Jokel et al. (2018). Hunting the main play...
AS16 3114	Fdx2 Ferredoxin 2	Terrauchi et al. (2009). Pattern of expres...
AS07 224	Fdx3 ferredoxin 3	Terrauchi et al. (2009). Pattern of expres...
AS07 223	Fdx6 ferredoxin 6	Terauchi et al. (2009). Pattern of expres...
AS10 674	FER Ferritin (plant)	Kovács et al. (2016). Revisiting the iron ...
AS06 126	Fer1 Ferritin 1 (pre-apoferr...	Long et al. (2008) Genetics 179: 137-147
AS06 196	Fer2 ferritin 2	Long et al. (2008) Genetics 179: 137-147
AS06 125	FeSOD Chloroplastic Fe-depen...	Momčilović et al. (2014). Improved procedu... Dang et al. (2014). Combined Increases in ... Volgusheva et al. (2017). Comparative anal... Jokel et al. (2018). Hunting the main play...
IMS02-038-341	Fibrinogen	Kinzebach et al. (2013). Functional and di...
IMS06-038-312	Fibrinogen, Biotin conjugated	Kinzebach et al. (2013). Functional and di...
IMS09-038-335	Fibrinogen, labelled with fluo...	Schmidt et al. (2012). Phenotyping of Stap... Terada et al. (2014). Effects of riboflavi...
AS12 2618	FMR Fumarate reductase	Subramanian et al. (2014). Profiling Chlam...
AS06 120	FOX1 plasma membrane ferroxi...	LaFontaine et al. (2002) Copper-Dependent ... Kropat et al. (2015). Copper economy in Ch...
AS07 251	FtsH10 ATP-dependent zinc me...	Quesada et al. (2011). Arabidopsis RUGOSA2... Kwasniak et al. (2013). Silencing of the N... Piechota et al. (2015). Unraveling the fun...
AS11 1789	FtsH1-11 ATP-dependent zinc ...	Li et al. (2016). A Hard Day's Night: Diat... Campbell et al. (2013). Photosystem II pro... Tietz et al. (2015). Functional Implicatio...
AS11 1789S	FtsH2 FtsH2 positive control...	Li et al. (2016). A Hard Day's Night: Diat...
AS07 204	FtsH3 + FtsH10 ATP-dependent...	Piechota et al. (2010). Identification and...
AS07 205	FtsH4 ATP-dependent zinc met...	Kwasniak et al. (2013). Silencing of the N... Zhang et al. (2014). Perturbation of auxin... Rurek et al. (2015). Biogenesis of mitocho... Dolzblasz et al. (2016). The mitochondrial... Opalińska et al. (2017). Identification of...
AS05 094A	FtsH6 ATP-dependent zinc met...	Sedaghatmehr et al. (2016). The plastid me...

AS07 217	FtsZ Procaryotic cell divisi...	MacCready et al. (2016). Robust Min-System... Kabeya et al (2010). The YlmG protein has ... Miyagishima et al. (2014). DipM is require... Probst et al. (2014). Biology of a widespr... Plominsky et al. (2013). Dinitrogen Fixati...
AS10 715	FtsZ Procaryotic cell divisi...	Söderström et al. (2014). Disassembly of t... Pende et al. (2014). Size-independent symm...
AS07 268	Fucose	Lehtimäki et al. (2014). Posttranslational... Ebert et al. (2015). Identification and Ch... Hanania et al. (2017). Establishment of a ... Nakanishi et al. (2017). Protection of Hum...
AS00 001	FVIIa Coagulation factor VII...	Lopez-Vilchez et al. (2009). Traffic of rF...
AS00 001-500	FVIIa Coagulation factor VII...	Lopez-Vilchez et al. (2009). Traffic of rF...
AS11 1631	GAI DELLA protein GAI	Shahnejat-Bushehri et al. (2016). Arabidop...
AS17 4114	Gamma CA Gamma Carbonic an...	Kühn et al. (2015). Complete Mitochondrial...
AS06 186	Gamma-ECS Gamma glutamylcyst...	Sobrinho-Plata et al. (2014). Glutathione i... Ghanta et al. (2011). Nicotiana tabacum ov...
AS11 1811	Gamma-glutamyl-cysteine	Koffler et al. (2011). Subcellular distrib...
AS13 2727	GAPC2 Glyceraldehyde-3-phosp...	Kwon et al. (2018). AtCAP2 is crucial for ...
AS05 074	GDC-H H protein of glycine d...	Córdoba-Cañero et al. (2011). Arabidopsis ... Long et al. (2015). Contributions of photo... Bancel et al. (2015). Proteomic Approach t... Lynch et al. (2017). Multifaceted plant re...
AS09 454	GDE / AGL Glycogen debranchi...	Pagliarani et al. (2014). Glycogen storage... Richmond et al. (2018). Glycogen debranchi... Oldenburg et al. (2016). CD44 and RHAMM ar...
AS05 068	GDH1 Glutamate dehydrogenase...	Sarasketa et al. (2014). Exploring ammoniu... Tsilikochrisos et al. (2014). Glutamate de...
AS15 2987	GFP Green Fluorescence Prote...	Kulich et al. (2018). Deubiquitinase OTU5 ...
AS14 2800	GID1c Gibberellin receptor G...	Hauvermale et al. (2015). Loss of Arabidop...
AS06 182	GLDH Galactono-1,4 lactone d...	Ostaszewska-Bugajska et al. (2016). Change... Bartoli et al. (2005). Ascorbate content i... Schimmeyer et al. (2016). L-Galactono-1,4-...
AS08 295	GLN1 GLN2 GS1 GS2 glutamine ...	Lang et al. (2011). Simultaneous isolation ... Brouwer et al. (2011) The Impact of Light Int... Podgórska et al. (2013). Long-term ammoniu... Silva et al. (2015). Possible role of glut... Witzel et al. (2017). Temporal impact of t...

AS08 296	GLN2 GS2, chloroplastic form...	Hu and Li (2012). The amino-terminal domai... Lee et al. (2013). Stromal protein degrada... Dixit (2015). Sulfur alleviates arsenic to...
AS01 018	GlnA Glutamine synthetase	Brown et al. (2008). Flux capacities and a... Burns et al. (2006). Inorganic carbon repl...
AS10 689	GluTR Glutamyl -tRNA reducta...	Nishimura et al. (2013). ClpS1 Is a Conser...
AS09 593	Gly glycine	Van Zundert et al. (2000). Effects of chro... Rubio & Juiz (2004). Differential distribu...
AS05 087	GnRH α gonadotropin-releasing...	Guzmán et al. (2008). Vitellogenin, steroi... Amezawa et al. (2018). Spawning induction ...
AS05 087-20	GnRH α gonadotropin-releasing...	Guzmán et al. (2008). Vitellogenin, steroi...
AS05 088	GnRH α gonadotropin-releasing...	Guzmán et al. (2008). Vitellogenin, steroi...
AS12 2228	Goat anti-Biotin, DyLight® 65...	Ainla et al. (2013). Lab on a Biomembrane:...
AS09 603	Goat anti-Chicken IgY (H&L), H...	Huang et al. (2015). Effects of exogenous ...
AS10 1404	Goat anti-Human kappa chain, B...	Reinhart et al. (2014). In search of expre...
AS12 2298	Goat anti-Llama IgG (H&L), Dy...	Reusken et al. (2013).MiddleEastrespirator...
AS10 1419	Goat anti-Llama IgG (H&L), FIT...	Meyer et al. (2014). Antibodies against ME...
AS09 637	Goat anti-Mouse IgG (H&L), DyL...	Wang et al. (2016). Complementary expressi... Liu et al. (2016). Fold formation at the c...
AS10 1427	Goat anti-Mouse IgG (H&L), HRP...	Barahimipour et al. (2016). Efficient expr...
AS10 1427 - trial san	Goat anti-Mouse IgG (H&L), HRP...	Barahimipour et al. (2016). Efficient expr...
AS11 1772	Goat anti-Mouse IgG (H&L), HRP...	Dmitrović et al. (2015). Essential oils of... Shin et al. (2017), Complementation of a m...
AS09 607	Goat anti-Rabbit IgG (H&L), AL...	Krasuska et al. (2015). Switch from hetero... Hanschen et al. (2018). Differences in the...
AS09 607-trial	Goat anti-Rabbit IgG (H&L), AL...	Krasuska et al. (2015). Switch from hetero...
AS10 1086	Goat anti-Rabbit IgG (H&L), AL...	Węźowicz et al. (2017). Interactions of ar...
AS09 633	Goat anti-Rabbit IgG (H&L), Dy...	Jimenez-Lopez et al. (2015). Biogenesis of... Kaulmann et al. (2016). Inflammation relat... Wang et al. (2016). Complementary expressi... Liu et al. (2016). Fold formation at the c...
AS11 1815	Goat anti-Rabbit IgG (H&L), Dy...	Chong et al. (2015). Active fungal GH115 α...
AS10 852	Goat anti-Rabbit IgG (H&L), F(...	Linster et al. (2015). Downregulation of N...

AS09 602	Goat anti-Rabbit IgG (H&L), HR...	Barahimipour et al. (2016). Efficient expr... Nikkanen et al. (2018). Regulation of chlo... Datta et al. (2016). Glutathione Regulates... Good et al. (2016). Attenuating Listeria m... Romanowska et al. (2017). Differences in p... Tyuereva et al. (2017). The absence of chl... Niederhuber et al. (2017). Super-resolutio... Kamies et al. (2017). A Proteomic Approach... Gzyl et al. (2017). Gamma-tubulin distribu...
AS09 602-trial	Goat anti-Rabbit IgG (H&L), HR...	Ivanov et al. (2014). SORTING NEXIN1 Is Re... Zubo et al. (2014). Inhibition of the elec... Giuntoli et al. (2014). A trihelix DNA bin... MacLellan et al. (2015). Chaperone roles f...
AS07 242	GOGAT Glutamine oxoglutarate...	Podgórska et al. (2013). Long-term ammoniu... Moscatelli et al. (2015). Characterisation... Yang et al. (2016). Rice Ferredoxin-Depend... Nath et al. (2016). A Nitrogen-Fixing Subu... Jayawardena et al. (2016). Elevated CO2 pl... Wang et al. (2018). Genetic variations in ... Takabayashi et al. (2016) Direct interacti...
AS14 2795	GORK Potassium channel GORK	Eisenach et al. (2014). Clustering of the ...
AS09 455	GP Glycogen phosphorylase	Bowker and Zhuang (2015). Relationship bet... Zhu et al. (2011). High post-mortem temper... Dandanell et al. (2016). Maintaining a cli...
AS04 055	GPX Glutathione peroxidase (...)	Juszczak et al. (2012). Natural genetic va... Lepistö et al. (2013). Deletion of chlorop...
AS06 181	GR Glutathione reductase	Sobrinho-Plata et al. (2014). Glutathione i... Sobrinho-Plata et al. (2013). Specific stre... >Kováčik et al. (2013). Oxidative stress, ... Shaw et al. (2015). β-aminobutyric acid me... Hattab et al. (2015). Characterisation of ... Yin et al. (2016). Comprehensive Mitochond...
AS15 3108	Grx5 Monothiol glutaredoxin-...	Nath et al. (2016). A Nitrogen-Fixing Subu...
AS06 183	GS Glutathione synthase, GSH...	Baojian et al. (2014). Maize (Zea mays L.)... Gomez et al. (2004) Intercellular distribu... Jayawardena et al. (2016). Elevated CO2 pl...
AS09 594	GSH Glutathione (rabbit anti...	Gerdon et al. (2005). Quartz crystal micro...
AS09 595	GSH Glutathione (rat antibod...	Amara et al. (1994). Antibodies to reduced...

AS09 647	GSNOR S-nitrosoglutathione r...	Kovacs et al. (2016). ROS-Mediated Inhibit... Lee et al. (2008). Modulation of nitrosati... Zhou et al. (2016). Arabidopsis CaM1 and C... Jain et al. (2018). S-nitrosylation/denitr...
AS09 479	GST class-phi Glutathione S ...	Datta and Chattopadhyay (2015). Changes in... Chen et al. (2013). Photosynthetic and ant...
AS15 2883	GST1 Glutathione-S-transfer...	Roach et al. (2018). Distress and eustress...
AS08 365	GTA MCP Gene Transfer Agent ...	Mercer and Lang (2014). Identification of ... Tomasch et al. (2018). Packaging of Dinoro...
AS15 3090	GUN4 Regulatory subunit of M...	Formigheri et al. (2012). Retrograde signa...
AS07 260	H+ATPase Plasma membrane H+A...	LaMontagne et al. (2016). Isolation of Mic... Kovaleva et al. (2017). Regulation of Petu... Seguel et al. (2018). PROHIBITIN 3 forms c... Lomin et al. (2017). Studies of cytokinin ... Liao et al. (2017). Arabidopsis E3 ubiquit... Duan et al. (2017). A Lipid-Anchored NAC T... Aloui et al. (2017). The plasma membrane p... Nagel et al. (2017). Arabidopsis SH3P2 is ...
AS07 260-100	H+ATPase Plasma membrane H+A...	Sobрино-Plata et al. (2014). Glutathione i... Shen et al. (2014). The fronds tonoplast q... Zhang et al. (2014). Arabidopsis ABCG14 pr... Komatsu et al. (2014). Phototropin Encoded... Migocka et al. (2014). Molecular and bioch... Hu et al. (2015). Re-examination of chloro... Kolb et al. (2015). FYVE1 is essential for... Li et al. (2015). Three SAUR proteins SAUR... Berthier et al. (2014). Identification of a...
AS11 1801	H1 Histone H1	She and Baroux (2015). Chromatin dynamics ... She et al. (2013). Chromatin reprogramming... Wollmann et al. (2017). The histone H3 var...
AS10 710-100	H3 Histone H3 (100 µl)	Rihan et al. (2014). The effect of molybde... Wobbe and Nixon (2013). The mTERF protein ... Szabala et al. (2014). Accumulation of aci... Spijkerman et al. (2014). CO2 acquisition ...

AS10 710	H3 Histone H3 (rabbit antibo...	Gorovits et al. (2016). Tomato yellow leaf... Ghandi et al. (2016). Tomato yellow leaf c... Castellano et al. (2016). A pathogenic lon... Correa-Galvis et al. (2016). Photosystem I... Shin et al. (2017). The metabolic sensor A... Rihan et al. (2017). An analysis of the de... Duan et al. (2017). A Lipid-Anchored NAC T... Hartmann et al. (2018). Subcellular Compar...
AS06 163	Hcf101 High chlorophyll fluo...	Bigéard et al. (2014). Proteomic and phosph... Hu et al. (2017). The SUFBC2 D Complex is ...
AS10 688	HCP Hyper conserved protein	Whidden et al. (2014). Quantitative and fu...
AS10 683	HDEL Endoplasmic reticulum r...	Luo et al. (2006). GRP78/BiP is required ... Napier et al. (1992). Immunological eviden...
AS10 683-25	HDEL Endoplasmic reticulum r...	Luo et al. (2006). GRP78/BiP is required ... Napier et al. (1992). Immunological eviden...
AS11 1792	HDT1 Histone deacetylase	Derbyshire et al. (2015). Proteomic Analys...
AS01 020	Helicobacter pylori	Lertsethtakarn et al. (2015). Helicobacter... Collins et al. (2016). The Helicobacter py...
AS10 1626	Hellethionin	Milbradt et al. (2003). Structural charact... Silverstein et al. (2007). Small cysteine-...
AS10 1622	Hellethionin (300 ul)	Milbradt et al. (2003). Structural charact... Silverstein et al. (2007). Small cysteine-...
AS07 228	HemH Protoporphyrin ferroche...	Masoumi et al. (2008). Complex formation ...
AS07 227	HemY protoporphyrinogen oxid...	Masoumi et al (2008). Complex formation be...
AS11 1771	His-tag 6xHis	Häggmark-Månberg et al. (2016). Autoantibo...
AS10 1616	HliA High light inducible pr...	Knoppová et al. (2014). Discovery of a chl...
AS10 1610	HliD High light inducible pr...	Chidgey et al. (2014). A cyanobacterial ch... Knoppová et al. (2014). Discovery of a chl... Staleva et al. (2015). Mechanism of photop...
AS10 1615	HliD High light inducible pr...	Chidgey et al. (2014). A cyanobacterial ch...
AS11 1797	HPR Hydroxypyruvate reductas...	Farmer et al. (2013).Disrupting Autophagy ...
AS09 549	HRP Horseradish peroxidase (...)	Rup et al. (2017). Immunogenicity of glyca...
AS05 062	HSC70 salmon heat shock cogn...	LeBlanc et al. (2011). Chronic social stre... Rendell et al. (2006). Development-depende...
AS07 233	HSC70/HSP70 Heat shock cogna...	Crookes & Olsen (1998), The effects of cha...
AS06 178	HSF1 Heat shock factor 1	Schulz-Raffelt et al. (2007).. Heat shock ...

AS07 253	HSP101 ClpB heat shock prote...	Muench et al. (2016). Reactive electrophil... Pyatrikas et al. (2014). Mitochondrial Ret... Gamburg et al. (2014). The Relationship be... Mishra and Grover (2014). Intergenic Seque... Yamauchi et al. (2015). Reactive short-cha... Almoguera et al. (2015). Heat shock transc... Mishra et al. (2015). Characterization of ... Fragkostefanakis et al. (2016). HsfA2 cont... Kumar et al. (2015). Expression analysis o... Lämke et al. (2016). A hit-and-run heat sh... Shen et al. (2016). The Arabidopsis polyam...
AS08 287	HSP101 ClpB heat shock prote...	Janicka-Russak et al. (2012). Different ef... Janicka-Russak et al. (2013). Modification...
AS08 290	HSP101 nuclear/cytoplasmatic...	Nieto-Sotelo et al. (1999). Characterizati... Nieto-Sotelo et al. (2002). Maize HSP101 p... Holding (2011). Pyrophosphate dependent fr... Jespersen et al. (2017). Metabolic Effects...
AS08 286	HSP16.6 Class I heat shock p...	Gunnelius et al. (2014). The omega subunit...
AS07 254	HSP17.6 Cytosolic class I he...	Pyatrikas et al. (2014). Mitochondrial Ret... Florentin et al. (2013). Stress induces pl... Yamauchi et al. (2015). Reactive short-cha... Zhu et al. (2018). Cloning and expression ... Murano et al. (2017). A purine-type heat s... Shen et al. (2016). The Arabidopsis polyam...
AS08 284	HSP17.6 Cytosolic class I he...	Mao and Sun (2015). Arabidopsis seed-speci...
AS07 255	HSP17.7 Cytosolic class II h...	Luján et al. (2009). Small heat-shock prot... Janicka-Russak et al. (2012). Different ef... Mao and Sun (2015). Arabidopsis seed-speci... Hattab et al. (2015). Characterisation of ...
AS08 285	HSP21 Chloroplastic heat sho...	Almoguera et al. (2015). Heat shock transc... Hai-Dong Yu et al. (2012). Downregulation ... Lämke et al. (2016). A hit-and-run heat sh... Shen et al. (2016). The Arabidopsis polyam... Jespersen et al. (2017). Metabolic Effects...
AS08 347	HSP70 Heat shock protein 70 ...	Murcha et al. (2016). Plant specific Prepr... Opalińska et al. (2017). Identification of... Rurek et al. (2018). Mitochondrial Biogene...
AS08 348	HSP70 Heat shock protein 70 ...	Jedmowski et al. (2014). Comparative analy... Shen et al. (2016). The Arabidopsis polyam... Wu et al. (2018). Control of Retrograde Si...

AS08 371	HSP70 Heat shock protein 70 ...	Hammann et al. (2016). Selection of heat-s... Gorovits et al. (2016). Tomato yellow leaf... Ghandi et al. (2016). Tomato yellow leaf c... Shen et al. (2016). The Arabidopsis polyam... Fernández-Bautista N. et al. (2017). AtHOP... Gorovits et al. (2017). The six Tomato yel... Barghetti et al. (2017). Heat-shock protei...
as08 371-100	HSP70 Heat shock protein 70 ...	Liu et al. (2014). Spermidine Enhances Wat... Guggisberg et al. (2014). A sugar phosphat... Hazlina et al. (2015). Photoinhibition and...
AS05 061	HSP70 salmonid heat shock pr...	Templeman et al. (2014). Linking physiolog... Ricketts et al. (2015). The Effects of Acu... Kelly et al. (2017). Acclimation capacity ...
AS05 061A	HSP70 Salmonid heat shock pr...	Gallant el al. (2017). Physiological respo... Curie et al. (2008). β-Adrenergic Stimulat... Lewis et al. (2016). Different Relationshi...
AS05 083	HSP70/HSC70 Heat shock prote...	Gorovits et al. (2013). Recruitment of the... Bessemmer et al. (2014). Cardiorespiratory ... MacLellan et al. (2015). Chaperone roles f...
AS05 083A	HSP70/HSC70 Heat shock prote...	French et al. (2015). High survivorship af... Bockus (2016). A Study of the Regulatory a... Tunnah et al (2016). Physiological respons...
AS09 592	HSP70/HSC70 Heat shock prote...	Chandra et al. (2012). Sustained high temp...
AS06 175	HSP70B Stromal alfa-HSP70	Diaz-Troya et al. (2011). Inhibition of pr...
AS05 063	HSP90 Heat shock protein 90	Liu et al. (2014). Spermidine Enhances Wat... Chandra et al. (2012). Sustained high temp... Ricketts et al. (2015). The Effects of Acu... Kelly et al. (2017). Acclimation capacity ...
AS08 346	HSP90-1 heat shock protein 9...	Svozil et al. (2014). Protein abundance ch... Tillmann et al. (2014). Hsp90 is involved ... Moshe et al. (2015). Tomato plant cell dea... Svozil et al. (2015). Proteasome targeting... Derbyshire et al. (2015). Proteomic Analys... Ghandi et al. (2016). Tomato yellow leaf c... Finka et al. (2012). Plasma Membrane Cycli...
AS11 1629	HSP90-2 heat shock protein 9...	He et a. (2012). Specific Missense Alleles of... Barghetti et al. (2017). Heat-shock protei...
AS06 174	HSP90C alfa-HSP90C, heat sho...	Willmund & Schroda (2005). HSP90C is a bo...
AS12 1867	HY5 Protein long hypocotyl 5	Lee et al. (2017). The F-box protein FKF1 ...

AS09 514	HydA Iron-hydrogenase HydA1/...	Magneschi et al. (2012). A Mutant in the A... Pinto et al. (2013). Rubisco mutants of Ch... Reifschneider-Wegner et al. (2014). Expres... Liran et al. (2016). Microoxic Niches with... Eilenberg et al. (2016). The dual effect o... Wei et al. (2017). Light Intensity is Impo...
AS06 136	HYL1 Hyponastic leave phenot...	Manavella et al. (2012). Fast-Forward Gene... Raczynska et al. (2013). TheSERRATEprotein... Francisco-Mangilet et al. (2015). THO2, co... Li et al. (2016). Intron Lariat RNA Inhibi... Su et al. (2017). The Protein Phosphatase ...
AS06 193	IAA Indole 3 acetic acid	Bianco and Defez (2009). Medicago truncatu... Lu et al. (2015). OsPIN5b modulates rice p...
AS09 445	IAA Indole-3-acetic acid (C1...	Livanos et al. (2015). Deliberate ROS prod...
AS09 421	IAA indole-3-acetic acid (N1...	De Diego et al. (2013).Immunolocalization ... Escandón et al. (2016). Integrated physiol... Jesus et al. (2015). Salicylic acid applic... Dinis et al. (2018). Kaolin modulates ABA ...
AS09 517	IAA tracer (alkaline phosphat...	Krasuska et al. (2016). Toxicity of canava... Soltys et al. (2014). Phytotoxic cyanamide... Araniti et al. (2016). Loss of Gravitropis...
AS09 500	ICL Isocitrate lyase	Maeshima et al. (1988). Evidence for no pr...
AS06 203A	IDH Isocitrate dehydrogenase	Rurek et al. (2015). Biogenesis of mitoch... Fujii et al. (2016). The Restorer-of-ferti... Yin et al. (2016). Comprehensive Mitochond... Rurek et al. (2018). Mitochondrial Biogene...
AS13 2710	IPP isomerase Isopentyl pyro...	Sun et al. (1998). Differential expression...
AS11 1780	IRT1 Iron regulated transpor...	Ivanov et al. (2014). SORTING NEXIN1 Is Re... Selote et al. (2014). Iron-binding E3 liga...
AS08 374	KatG catalase peroxidase (HP...	Wenk et al. (2012). A universally conserve...
AS09 515	KC1 potassium channel KAT3	Honsbein et al. (2009). A tripartite SNARE...
AS99 001	KLH Keyhole limpet hemocyani...	Höglund et al. (2002). An Antigen Expresse... Geadkaew et al. (2014). Bi-functionality o...
AS15 3069	L16 Mitochondrial ribosomal ...	Kwaśniak et al. (2013). Silencing of nucle...
AS16 3144	Lacl Lactose operon represso...	Kim T., et al. (2005) Engineering a root-s...
AS05 090	Lci5 low carbon dioxide indu...	Turkina et al. (2006). CO2 limitation ind...
AS08 360	L-cys L-cysteine	Zechmann et al. (2006) Immunocytochemical ... Zechmann et al. (2007) Virus-induced chang...
AS12 2614	LexA SOS function regulatory...	Oliveira and Lindblad (2011). Novel Insign...

AS08 282	Lhc1 PS I light harvesting h...	Tan et al. (1995).Decrease of polypeptides... Wolfe et al. (1994) Evidence for a common ...
AS01 005	Lhca1 PSI type I chlorophyll...	Saito et al. (2014). Fe deficiency induces... Qin et al. (2014). Isolation and character... Heinnickel et al. (2016). Tetratricopeptid... Mazur et al. (2016). Overlapping toxic eff... Tyuereva et al. (2017). The absence of chl... Yang et al. (2017). Tetratricopeptide repe... Zhu et al. (2018). A comprehensive proteom... Myouga et al. (2018). Stable accumulation ...
AS01 006	Lhca2 PSI type II chloropyll...	Qin et al. (2014). Isolation and character... Chen et al. (2017). Comparison of Photosyn... Kunugi et al. (2016). Evolution of Green P... Hu et al. (2017). The SUFBC2 D Complex is ... Míguez et al. (2017). Diversity of winter ... Yang et al. (2017). Tetratricopeptide repe... Kim et al. (2018). The rice zebra3 (z3) mu... Myouga et al. (2018). Stable accumulation ...
AS01 007	Lhca3 PSI type III chlorophy...	Qin et al. (2014). Isolation and character... Yokono et al. (2015). A megacomplex compos... Chen et al. (2017). Comparison of Photosyn... Tyuereva et al. (2017). The absence of chl... Myouga et al. (2018). Stable accumulation ...
AS01 008	Lhca4 PSI type IV chlorophyl...	Qin et al. (2014). Isolation and character... Yokono et al. (2015). A megacomplex compos... Yang-Er Chen et al. (2017). Responses of p... Nath et al. (2016). A Nitrogen-Fixing Subu... Tyuereva et al. (2017). The absence of chl... Zhu et al. (2018). A comprehensive proteom... Myouga et al. (2018). Stable accumulation ...
AS05 082	Lhca5 PSI type V chlorophyll...	Qin et al. (2014). Isolation and character... Myouga et al. (2018). Stable accumulation ...
AS01 004	Lhcb1 LHCII type I chlorophy...	Kowalewska et al. (2016). Three-dimensiona... Yang-Er Chen et al. (2017). Responses of p... Mazur et al. (2016). Overlapping toxic eff... Rantala et al. (2017). Proteomic character... Shin et al. (2017), Complementation of a m... Myouga et al. (2018). Stable accumulation ...
AS01 004-100	Lhcb1 LHCII type I chlorophy...	Sobrinio-Plata et al. (2014). Glutathione i...

AS09 522	Lhcb1 LHCII type I chlorophy...	Correa-Galvis et al. (2016). PsbS interact... Wientjes et al (2013). LHCII is an antenna... Longoni et al. (2015). Phosphorylation of ... Fristedt et al. (2017). PSB33 sustains pho... Hartings et al. (2017). The DnaJ-Like Zinc...
AS13 2704	Lhcb1-P LHCII type I chlorop...	Leoni et al. (2013). Very rapid phosphoryl... Jia et al. (2014). Accumulation of NON-YEL... Sato et al. (2015). Chlorophyll b degradat... Longoni et al. (2015). Phosphorylation of ... Fristedt et al. (2017). PSB33 sustains pho... Rantala and Tikkanen et al. (2018). Phosph... Schönberg et al. (2017). Identification of... Rantala et al. (2017). Proteomic character...
AS01 003	Lhcb2 LHCII type II chloroph...	Yang-Er Chen et al. (2017). Responses of p... Míguez et al. (2017). Diversity of winter ... Tyuereva et al. (2017). The absence of chl... Cantrell and Peers (2017). A mutant of Chl... Rantala et al. (2017). Proteomic character... Shin et al. (2017), Complementation of a m... Kim et al. (2018). The rice zebra3 (z3) mu... Du et al. (2018). Galactoglycerolipid Lipa... Myouga et al. (2018). Stable accumulation ...
AS13 2705	Lhcb2-P LHCII type II chloro...	Leoni et al. (2013). Very rapid phosphoryl... Sato et al. (2015). Chlorophyll b degradat... Fristedt et al. (2017). PSB33 sustains pho... Rantala and Tikkanen et al. (2018). Phosph... Rantala et al. (2017). Proteomic character...
AS01 002	Lhcb3 LHCII type III chlorop...	Wientjes et al (2013). LHCII is an antenna... Yokono et al. (2015). A megacomplex compos... Rozpądek et al. (2015). The fungal endophy... Rudowska et al. (2012). Chloroplast biogen... Yang-Er Chen et al. (2017). Responses of p... Yao et al. (2015). Ultraviolet-B protectio... Rantala and Tikkanen et al. (2018). Phosph... Kunugi et al. (2016). Evolution of Green P... Tyuereva et al. (2017). The absence of chl... Shin et al. (2017), Complementation of a m... Myouga et al. (2018). Stable accumulation ...

AS06 117	Lhcb4 CP29 (Lhcb4) homolog, ...	Drop et. al (2014). Consequences of state ... Muranaka et al. (2015). TEF30 interacts wi... Shin et al. (2017), Complementation of a m... Jeong et al. (2017). Deletion of the chlor...
AS04 045	Lhcb4 CP29 chlorophyll a/b b...	Grimmer et al. (2014). The RNA-binding pro... Sun et al. (2014). Direct energy transfer ... Kim et al. (2015). Cytosolic targeting fac... Pavlovič et al. (2016). A carnivorous sund... Yang-Er Chen et al. (2017). Responses of p... Betterle et al. (2016). The STN8 kinase-PB... Tyuereva et al. (2017). The absence of chl... Kim et al. (2018). The rice zebra3 (z3) mu... Myouga et al. (2018). Stable accumulation ...
AS09 407	Lhcb5 CP26 (Lhcb5) homolog, ...	Takahashi et al. (2006). Identification of... Drop et. al (2014). Consequences of state ... Muranaka et al. (2015). TEF30 interacts wi... Correa-Galvis et al. (2016). Photosystem I...
AS01 009	Lhcb5 CP26 chlorophyll a/b-b...	Ido et al. (2014). Cross-Linking Evidence ... Sun et al. (2014). Direct energy transfer ... Pavlovič et al. (2016). A carnivorous sund... Zhou et al. (2013) Mutation of the Light-I... Yang-Er Chen et al. (2017). Responses of p... Tyuereva et al. (2017). The absence of chl...
AS01 010	Lhcb6 CP24 chlorophyll a/b-bi...	Tyutereva et al. (2017). Stomata control i... Chen et al. (2017). Comparison of Photosyn... Wang et al. (2018). iTRAQ-based quantitati... Du et al. (2018). Galactoglycerolipid Lipa... Myouga et al. (2018). Stable accumulation ...
AS15 3088	LHCb9 Light-harvesting compl...	Alboresi et al. (2011). A red-shifted ante...
AS09 408	Lhcbm5 Chlorophyll a-b bindi...	Grewe et al. (2014). Light-Harvesting Comp... Jeong et al. (2016). Loss of CpSRP54 funct... Jeong et al. (2017). Deletion of the chlor...
AS14 2819	LHCSR1	Dinc et al. (2016). LHCSR1 induces a fast ... Correa-Galvis et al. (2016). Photosystem I... Allorent et al. (2016). UV-B photoreceptor... Chukhutsina et al. (2017). Photoprotection... Giovagnetti et al. (2018). A siphonous mor... Kosuge et al.(2018). LHCSR1-dependent fluo...
AS15 3081	LhcSR1 (Physcomitrella patens)	Pinnola at al. (2015). Light-Harvesting Co...

AS14 2766	LHCSR3	Haraldsdóttir (2016). Protection against U... Garibay-Hernández et al. (2016). Membrane ... Wei et al. (2017). Light Intensity is Impo... Chaux et al. (2017). Flavodiiron Proteins ... Chukhutsina et al. (2017). Photoprotection... Giovagnetti et al. (2018). A siphonous mor... Kosuge et al.(2018). LHCSR1-dependent fluo... Jokel et al. (2018). Hunting the main play...
AS17 4115	Lhcx6 Lhcx subclade of fucox...	Zhu and Green (2010). Photoprotection in t...
AS07 258	LOX-C Lipoxygenase (chloropl...	Pilati et al. (2015). The onset of grapevi... Seguel et al. (2018). PROHIBITIN 3 forms c...
AS13 2746	LSD1 Lesion simulating disea...	Chai et al. (2015). LSD1 and HY5 antagonis...
AS06 145	LTP vesicle-inducing protein...	Kroll et al. (2001) VIPP1, a nuclear gene...
AS13 2709	LYC Lycopene beta cyclase (c...	Sun et al. (1998). Differential expression...
AS13 2716	mAB-M Mouse anti-human Abeta...	Brännström et al. (2014). A Generic Method...
AS13 2715	mAB-O Mouse anti-human Abeta...	Brännström et al. (2014). A Generic Method...
AS10 696	MARBP matrix attachment regi...	Fujiwara et al. (2002). Molecular properti...
AS13 2706	MDH Malate dehydrogenase (cy...	Rai et al. (2017). Real-time iTRAQ-based p...
AS15 3064	MDH2 Malate dehydrogenase 2 ...	Witzel et al. (2017). Temporal impact of t...
AS16 3145	MerA Mercuric Ion Reductase	Nazaret, S., et al. (1994) merA Gene Expr... Rugh, C. L., et al. (1996) Mecuric ion red...
AS16 3146	MerB Organomercurial Lyase	Bizily, S. P., et al. (1999). Phytoremedia...
AS15 2826	MIP1 Aquaporin, glycerol tra...	Komsic-Buchmann et al. (2014). The Contrac...
AS13 2673	MKKK18 Mitogen-activated pro...	Mitula et al. (2015). Arabidopsis ABA-Acti...
AS14 2788	mLrig2-147 Leucine-rich repe...	Rondahl et al. (2014). Lrig2-deficient mic...
AS14 2789	mLrig3-207 Leucine-rich repe...	Hellstrom et al. (2016). Cardiac hypertrop...
AS12 2617	MME4 Malic enzyme	Subramanian et al. (2014). Profiling Chlam...
AS09 524	MnSOD Manganese superoxide d...	Momčilović et al. (2014). Improved procedu... Dmitrović et al. (2015). Essential oils of... Parys et al. (2014). Metabolic Responses t... Dimkovikj and Van Hoewyk (2014). Selenite ... Vuleta et al. (2016). Adaptive flexibility... Schimmeyer et al. (2016). L-Galactono-1,4-... Yin et al. (2016). Comprehensive Mitochond... Rurek et al. (2018). Mitochondrial Biogene...

AS03 031	mPGES-1 glutathione dependent ...	Olajide et al. (2014). Picralima nitida se... Tuure et al. (2014). Aurothiomalate inhibi... Bhatia et al. (2017). Alleviation of Micro... Kern et al. (2017). CD200 selectively upre... Tuure et al. (2017). PDE4 inhibitor rolipr... Gargouri et al. (2018: Anti-neuroinflammat...
AS03 031-1ml	mPGES-1 glutathione dependent ...	Olajide et al. (2014). Picralima nitida se... Tuure et al. (2014). Aurothiomalate inhibi...
AS12 2633	MPK6 Mitogen-activated prote...	Wang and Auwerx (2017). Systems Phytohormo...
AS09 472	MRP1, ABCC1 ABC transporter ...	Geisler et al., (2004). Arabidopsis Immuno...
AS13 2684	MT1a Metallothionein type1	Schiller et al. (2013). Barley metallothio...
AS13 2685	MT2a Metallothionein 2a	Schiller et al. (2013). Barley metallothio...
AS09 485	MTP1 vacuolar Zn ²⁺ /H ⁺ antipo...	Kobae et al. (2004). Zinc transporter of A... Kawachi et al. (2008). Deletion of a histi... Vera-Estrella et al. (2017). Cadmium and z...
AS05 078	MYST4 histone acetyltransfer...	McGraw et al. (2007). Investigation of MYS...
AS09 484	Na ⁺ /H ⁺ antiporter, sodium/hydr...	Chen et al. (2013). Nitric Oxide Mediates ... Kumari et al. (2017), Overexpression of a ...
AS08 333	NAB1 nucleic acid binding pr...	Mussnug et al. (2005) NAB1 is an RNA bind... Desai et al. (2014). Chlamydomonas axonema... Craft et al. (2015). Tubulin transport by ...
AS16 3932	NAD-ME Mitochondrial NAD-dep...	Long et al. (1994). Cloning and analysis o...
AS14 2805	NBR1 Autophagy substrate NBR...	Svenning et al. (2011). Plant NBR1 is a se... Minina et al. (2013). Autophagy mediates c... Katsiarimpa et al. (2013). The Deubiquitin... Hackenberg et al. (2013). Catalase and NO ...
AS05 077	NCAM 2 Neural cell adhesion ...	Alenius & Bohm (2003). Differetial functi... Gussing & Bohm (2004). NQO1 activity in th...
AS16 3931	NDC1 Alternative NAD(P)H-ubi...	Eugeni Piller et al. (2011). Chloroplast l...
AS16 4065	NdhH NAD(P)H-quinone oxid...	Nikkanen et al. (2018). Regulation of chlo...
AS13 2712	NdhH NAD(P)H-quinone oxidore...	Nath et al. (2016). A Nitrogen-Fixing Subu...
AS16 4066	NdhS NAD(P)H-quinone oxid...	Nikkanen et al. (2018). Regulation of chlo...
AS08 302	NDPK Nucleoside diphosphate...	Hammargren et al. (2007). On the phylogeny...
AS01 021A	NifH Nitrogenase iron protei...	Calusinska et al. (2015). Genome-wide tran... Moirangthem et al. (2014). A high constitu... Liberti et al. (2015). Bacterial symbiont ... Plominsky et al. (2013). Dinitrogen Fixati... Chen et al. (2013). Improving conversion e... König et al. (2016). Nitrogen fixation in ...
AS01 021S	NifH Positive control/quantit...	Levitan et a. (2010). Regulation of nitrog...

AS15 3030	NodGS Nodulin / glutamate-am...	Doskocilova et al. (2011). A nodulin/gluta...
AS15 3030A	NodGS Nodulin / glutamate-am...	Doskocilova et al. (2011). A nodulin/gluta...
AS08 310	NR Nitrate reductase, assimi...	Chen et al. (2016). The role of nitric oxi... Jayawardena et al. (2016). Elevated CO2 pl... Reda et al. (2017). Involvement of NR and ...
AS08 310-100	NR Nitrate reductase, assimi...	Johnson and Lecomte (2015). Characterizati... Beyzaei et al. (2014). Response of Nitrate... Frada et al. (2013). Quantum requirements ... Zhang et al. (2014). Heterologous expressi... Cheng et al. (2015). Quantitative proteomi...
AS12 1873	NtcA Global nitrogen regulat...	Ge et al. (2017). Translating Divergent En...
AS17 4117	Nucleomorph HLIP Nucleomor...	Funk et al. (2011). High light stress and ...
AS10 1572	PAR-1 protease-activated rec...	Grenegård et al. (2008). The ATP-gated P2X...
AS10 1573	PAR-4 protease-activated rec...	Grenegård et al. (2008). The ATP-gated P2X...
AS11 1699	Patulin, Total IgG (1 mg)	Funari et al. (2014). Detection of parathi...
AS06 141	PC Plastocyanin	Sook Seok et al. (2013). AtFKBP16-1, a chl... Perera-Garcia et al. (2013). Arabidopsis c... Kropat et al. (2015). Copper economy in Ch... Perea-García et al. (2017). Arabidopsis co... Yoshida et al. (2016). Hisabori T1.Two dis... Balyan et al. (2017). Identification of mi...
AS10 691	PDC Pyruvate decarboxylase	Giuntoli et al. (2014). A trihelix DNA bin...
AS09 471	PDR8 ABC transporter G famil...	Yoshihiro et al. (2006). Loss of AtPDR8, a... Campe et al. (2015). ABC transporter PEN3/...
AS09 458	PEPC Phosphoenolpyruvate car...	Jiang et al. (2017). Development of an Eff... Shen et al. (2015). Overexpression of maiz... Foley et. al (2015). Analysis of conglutin... Wen et al. (2017). Possible involvement of... Sonawane et al. (2018). Shade compromises ... Shen et al. (2016). The existence of C4-bu... Ishikawa et al. (2016). NDH-Mediated Cycli... Ribeiro et al. (2017). Increased sink stre... Liu et al. (2017). Plasma Membrane CRPK1-M...
AS07 241	PEPCK PEP carboxykinase	Aragón et al. (2013). The physiology of e... Shen et al. (2016). The existence of C4-bu...

AS08 330	PetC Rieske iron-sulfur prot...	Xing et al. (2017). Deletion of CGLD1 Impa... Zhang et al. (2016). A new paradigm for pr... Nath et al. (2016). A Nitrogen-Fixing Subu... Zang et al. (2017). Characterization of th... Wood et al. (2018). Dynamic thylakoid stac... Du et al. (2018). Galactoglycerolipid Lipa...
AS08 330S	PetC Rieske iron-sulfur prot...	Wu et al. (2014). Large centric diatoms al... Li et al. (2014). The nitrogen costs of ph...
AS08 372	Pex14p Peroxisomal marker	Li et al. (2015). A Chaperone Function of ... Zhong et al. (2016). MoDnm1 Dynamin Mediat... Vincent et al. (2017). A genome-scale anal... Gonzalez et al. (2018). A pex1 missense mu...
AS06 116	PGL35 Plastoglobulin 35; FIB...	Gámez-Arjona et al. (2014). Starch synthas... Luo et al. (2015). Distinct carotenoid and...
AS10 725	PGRL1 PGR5-like protein 1A (...)	Endow and Inoue (2013).Stablecomplexformat... Lintala et al. (2013). Arabidopsis tic62 t... Nikkanen et al. (2018). Regulation of chlo...
AS10 720	PHOT1 Phototropin-1	Eckstein et al. (2015). Auxin and chloropl... Łabuz et al. (2015). The impact of tempera...
AS10 721	PHOT2 Phototropin-2	Aggarwal et al. (2014). Blue-light-activat... Łabuz et al. (2015). The impact of tempera...
AS07 220	PhyA Phytochrome A	Paik et al. (2012). Phytochrome regulates ... Pierto-Dapena et al. (2017). Seed-specific...
AS09 487	PIP (PIP1;1, PIP1;2, PIP1;3, P...	Jang et al. (2013). Twoaquaporins of Jatro... Lopez et al. (2013). Aquaporins And Leaf H...
AS09 489	PIP1;1, PIP1;2, PIP1;3 Aquap...	Pengelly et al. (2014). Transplastomic int... Fernández-San Millán et al. (2018). Physio... https://doi.org/10.1093/jxb/ery148 .
AS09 504	PIP1;3 Aquaporin, plasma mem...	Sakurai et al. (2008). Tissue and cell-spe...
AS09 505	PIP1;3 Aquaporin, plasma mem...	Sakurai et al. (2008). Tissue and cell-spe... Liu et al. (2013). Brittle Culm1, a COBRA-... Zhang et al. (2017). Control of secondary ...
AS09 507	PIP2;1 aquaporin, plasma mem...	Sakurai et al. (2008). Tissue and cell-spe...
AS09 491	PIP2;1, PIP2;2, PIP2;3 Plasm...	Chowanski et al. (2015). Cold induced chan...
AS09 488	PIP2;1+PIP2;2 Aquaporin PIP2...	Markus G. et al., (2004). Arabidopsis Immu...
AS09 506	PIP2;3 Aquaporin, plasma mem...	Sakurai et al. (2008). Tissue and cell-spe...
AS09 508	PIP2;5 aquaporin, plasma mem...	Sakurai et al. (2008). Tissue and cell-spe...
AS09 469	PIP2;7 Plasma membrane aquap...	Jang et al. (2013). Twoaquaporins of Jatro... Hachez et al. (2014). The Arabidopsis Abio... Pou et al. (2016). Salinity-mediated trans...

AS15 2910	PntA (Slr1239) Pyridine nucl...	Kämäräinen et al. (2017). Pyridine nucleot...
AS05 067	POR Protochlorophilide oxido...	Huey-wen et al. (2014). Harpin Protein, an... Sakuraba et al. (2013). The rice faded gre... Svozil et al. (2014). Protein abundance ch... Hu et al. (2015). Site-specific Nitrosopro... Han et al. (2015). A nuclear-encoded chlor... Zhang et al. (2018). Nitric oxide regulate...
AS05 067-10	POR Protochlorophilide oxido...	Yuan et al. (2012). Assembly of NADPH:proto... Sakuraba et al. (2013). The rice faded gre... Liu et al. (2018). AhGLK1 affects chloroph... Yang et al. (2018). Effect of interactions...
AS13 2647	PPDK Pyruvate orthophosphate...	Shen et al. (2016). The existence of C4-bu...
AS10 687	PR-1 Pathogenesis-related pr...	Seguel et al. (2018). PROHIBITIN 3 forms c... Zhu et al. (2016). CML8, an Arabidopsis ca... Zhang et al. (2017). A suite of receptor-l... Huh et al. (2017). Protein-protein interac... Izquierdo et al. (2018). Arabidopsis nonre...
AS07 208	PR-2 GLU I Class I beta-1,...	Huey-wen et al. (2014). Harpin Protein, an... Munger et al. (2012). Beneficial 'unintend... Wang et al. (2014). Elicitation of Hyperse...
AS12 2366	PR-2 Pathogenesis-related pr...	Kim et al. (2014). The Arabidopsis Immune ... Jespersen et al. (2017). Metabolic Effects...
AS07 207	PR-3 / CHN Class I chitinase	Falcioni et al. (2013). Effect of salicyli... Munger et al. (2012). Beneficial 'unintend... Sticher et al. (1993). Posttranslational p... Anil Kumar et al. (2016). Beyond just bein... Ko et al. (2016). Constitutive expression ... Wu et al. (2016). Laminarin modulates the ... Kumari et al. (2017), Overexpression of a ... Jespersen et al. (2017). Metabolic Effects...
AS06 118	Pre-apoplastocyanin	Li et al. (1996). Molecular genetic anal...
AS07 257	PRK ribulose-5-P-kinase Phos...	Rai et al. (2017). Real-time iTRAQ-based p... Pérez-Ruiz et al. (2017). NTRC-dependent r...
AS14 2794	PRN2 Pirin-like protein	Zhang et al. (2014). PIRIN2 stabilizes cys...
AS16 3210	PRO1 Profilin-1	Kandasamy, M.K., et al. (2002). Plant prof...
AS16 3143	PRO4,5 Profilin-4,5	Kandasamy, M.K., et al. (2002). Plant prof...
AS05 093	PrxQ Peroxiredoxin, thioredo...	Wu et al. (2013). Proteomic and Phytohormo... Feifei et al. (2014). Comparison of Leaf P... Yoshida et al. (2015). Thioredoxin Selecti... Yoshida et al. (2016). Hisabori T1.Two dis...

AS13 2654	PSA2 Photosystem I assembly ...	Fristedt et al. (2014). A Thylakoid Membra...
AS15 2872	PSA3 Photosystem I Assembly ...	Shen J, Williams-Carrier R, and Barkan A. ...
AS06 172	PsaA PSI-A core protein of p...	Muneer et al. (2018). Proteomic Analysis R... Pavlovič et al. (2016). Light-induced grad... Pavlovič et al. (2016). A carnivorous sund... Gerotto et al. (2016). Flavodiiron protein... Sakuraba et al. (2017). Rice Phytochrome-... Yoshida et al. (2016). Hisabori T1.Two dis... Mazur et al. (2016). Overlapping toxic eff... Míguez et al. (2017). Diversity of winter ... Gandini et al. (2017). The transporter Syn... Fu et al. (2017). Redesigning the QA bindi... He at al. (2018). FRUCTOKINASE-LIKE PROTEI... Myouga et al. (2018). Stable accumulation ... Pao et al. (2018). Lamelloplasts and minic...
AS06 172-100	PsaA PSI-A core protein of p...	Muneer et al. (2018). Proteomic Analysis R... Pavlovič et al. (2016). Light-induced grad... Pavlovič et al. (2016). A carnivorous sund... Gerotto et al. (2016). Flavodiiron protein... Sakuraba et al. (2017). Rice Phytochrome-... Yoshida et al. (2016). Hisabori T1.Two dis... Mazur et al. (2016). Overlapping toxic eff... Míguez et al. (2017). Diversity of winter ... Gandini et al. (2017). The transporter Syn... Fu et al. (2017). Redesigning the QA bindi... He at al. (2018). FRUCTOKINASE-LIKE PROTEI... Myouga et al. (2018). Stable accumulation ...
AS10 695	PsaB PSI-B core subunit of p...	Subramanyam et al. (2014). Structural and ... Qin et al. (2014). Isolation and character... Grieco et al. (2015). Light-harvesting II ... Suorsa et al. (2015). Light acclimation in... Mustila et al. (2014). The bacterial-type ... Giovanardi et al. (2017). Higher packing o... Jusovic et al. (2017). Photosynthetic Resp... Wang et al. (2018). iTRAQ-based quantitati... Rantala and Tikkanen et al. (2018). Phosph... Nath et al. (2016). A Nitrogen-Fixing Subu... Gandini et al. (2017). The transporter Syn... Tyureva et al. (2017). The absence of chl... Georg et al. (2017). Acclimation of Oxygen...

AS04 042S	PsaC positive control/quantit...	Li et al. (2016). A Hard Day's Night: Diat... Wu et al. (2014). Large centric diatoms al... Li et al. (2014). The nitrogen costs of ph... Vandenhecke et al. (2015). Changes in the ...
AS04 042P	PsaC PSI-C core subunit of p...	Ifuku et al. (2005). PsbP protein, but not... Oesterhelt et al (2007). Regulation of pho...
AS10 939	PsaC PSI-C core subunit of p...	Li et al. (2016). A Hard Day's Night: Diat... Subramanyam et al. (2014). Structural and ... Dang et al. (2014). Combined Increases in ... Rozpądek et al. (2015). The fungal endophy... Heinzel et al. (2016). Tetratricopeptid... Yang-Er Chen et al. (2017). Responses of p... Hu et al. (2017). The SUFBC2 D Complex is ... Cantrell and Peers (2017). A mutant of Chl... Zang et al. (2017). Characterization of th... Du et al. (2018). Galactoglycerolipid Lipa...
AS09 461	PsaD PSI-D subunit of photos...	Tomizioli et al. (2014). Deciphering thyla... Cheng and He (2014). PfsR Is a Key Regulat... Qin et al. (2014). Isolation and character... Daddy et al. (2015). A novel high light-in... Fujii et al. (2015). Photoprotection vs Ph... Heinzel et al. (2016). Tetratricopeptid... Gerotto et al. (2016). Flavodiiron protein... Yang-Er Chen et al. (2017). Responses of p... Merry et al. (2017). A comparison of pine ... Ge et al. (2017). Translating Divergent En... Du et al. (2018). Galactoglycerolipid Lipa...
AS04 047	PsaE PSI-E subunit of photos...	Ye et al. (2012). A Mutation of OSOTP 51 L... Yadavalli et al. (2012). Differential degr... Yoshida et al. (2016). Hisabori T1.Two dis...
AS08 324A	PsaE PSI-E subunit of photos...	Yang et al. (2017). Tetratricopeptide rep...
AS06 104	PsaF PSI-F subunit of photos...	Qin et al. (2014). Isolation and character... Kanazawa et al. (2017). Chloroplast ATP Sy... Myouga et al. (2018). Stable accumulation ...
AS04 048	PsaG PSI-G subunit of photos...	Jensen et al. (2002) Photosystem I activit... Bock (2012). The plastid genome-encodedYcf...
AS06 105	PsaH PSI-H subunit of photos...	Tiwari et al. (2016). Photodamage of iron-... Wang et al. (2017). The Phytol Phosphoryla... Schwarz et al. (2017). Photosystem I-LHCII...
AS06 143	PsaH PSI-H subunit of photos...	Winck (2011). Nuclear proteomics and trans...

AS04 049	PsaK PSI-K subunit of photos...	Bock (2012). The plastid genome-encodedYcf...
AS06 108	PsaL PSI-L subunit of photos...	Sook Seok et al. (2013). AtFKBP16-1, a chl... Bock (2012). The plastid genome-encodedYcf...
AS06 109	PsaN PSI-N subunit of photos...	Hansson et al. (2007). Knock-out of the ch...
AS04 050	PsaO PSI-O subunit of photos...	Jensen et al. (2004) The PSI-O subunit of ...
AS07 240	Psb29 Thylakoid membrane for...	Huang et al. (2013). Arabidopsis Thylakoid... Hamel et al. (2016). The chloroplastic pro...
AS12 1852	PSB33 Rieske (2Fe-2S) domain...	Dixit (2015). Sulfur alleviates arsenic to... Fristedt at al. (2014). PSB33, a protein c... Fristedt et al. (2017). PSB33 sustains pho... Kato et al. (2017). Deficiency of the Stro...
AS01 016S	PsbA D1 positive control/qua...	Li et al. (2016). A Hard Day's Night: Diat... Wu et al. (2014). Large centric diatoms al... Li et al. (2014). The nitrogen costs of ph... Vandennecke et al. (2015). Changes in the ... Yuan et al. (2018). Combined effects of oc...
AS01 016	PsbA D1 protein of PSII, C-t...	Su et al. (2014). Exogenous progesterone a... Yokono et al. (2015). A megacomplex compos... Morash et al. (2007). Macromolecular dynam... Hoogenboom et al. (2012). Effects of Light... Esparza et al. (2013). Katanin Localizatio... Kim et al. (2018). The rice zebra3 (z3) mu... Dy et al. (2018). Galactoglycerolipid Lipa...
AS05 084	PsbA D1 protein of PSII, C-t...	Muneer et al. (2018). Proteomic Analysis R... Yang-Er Chen et al. (2017). Responses of p... Romanowska et al. (2017). Differences in p... Sharwood et al. (2017). Linking photosynth... Míguez et al. (2017). Diversity of winter ... Ananyev et al. (2017). Photosystem II-Cycl... Pao et al. (2018). Lamelloplasts and minic... Gao et al. (2018). Global warming interact...
AS05 084A	PsbA D1 protein of PSII, C-t...	Li et al. (2016). A Hard Day's Night: Diat... Kanazawa et al. (2017). Chloroplast ATP Sy... Sorrentino et al. (2018). Performance of t...

AS10 704	PsbA D1 protein of PSII, DE-...	Sobrinno-Plata et al. (2014). Glutathione i... Spetea et al. (1999). GTP bound to chlorop... Block et al. (2013). Functional Modeling I... Malnoë et al. (2014). Thylakoid FtsH Prote... Karlsson et al. (2015). The Arabidopsis th... Kowalewska et al. (2016). Three-dimensiona... Giovanardi et al. (2017). Higher packing o... Rantala and Tikkanen et al. (2018). Phosph... Mazur et al. (2016). Overlapping toxic eff... Kale et al. (2017). Amino acid oxidation o... Wu et al. (2018). Control of Retrograde Si...
AS11 1786	PsbA D1 protein of PSII, N-t...	Sook Seok et al. (2013). AtFKBP16-1, a chl... Malnoë et al. (2014). Thylakoid FtsH Prote... Perales-Vela et al. (2016). Streptomycin a... Georg et al. (2017). Acclimation of Oxygen...
AS13 2669	PsbA D1 protein of PSII, pho...	Li et al. (2015). Effect of hydrogen sulfi... Xing et al. (2017). Deletion of CGLD1 Impa...
AS04 038	PsbB CP47 protein of PSII	Blommaert et al. (2017). Contrasting NPQ d... Xing et al. (2017). Deletion of CGLD1 Impa... Fan et al. (2016). Proteome Analyses Using... Hu et al. (2017). The SUFBC2 D Complex is ... Gandini et al. (2017). The transporter Syn... Myouga et al. (2018). Stable accumulation ... Bressan et al. (2018). Light harvesting co...
AS11 1787	PsbC CP43 protein of PSII	Sakuraba et al. (2013). The green leaf loc... Wientjes et al (2013). LHCII is an antenna... Calderon et al. (2013). A Conserved Rubred... Yokono et al. (2015). A megacomplex compos... Liu and Last (2015). A land plant-specific... Chen et al. (2016). Expression of holo-pro... Kowalewska et al. (2016). Three-dimensiona... Yang-Er Chen et al. (2017). Responses of p... Chen et al. (2017). Comparison of Photosyn... Yoshida et al. (2016). Hisabori T1.Two dis... Mazur et al. (2016). Overlapping toxic eff... Gandini et al. (2017). The transporter Syn... Myouga et al. (2018). Stable accumulation ...

AS06 146	PsbD D2 protein of PSII	Kowalewska et al. (2016). Three-dimensiona... Yang-Er Chen et al. (2017). Responses of p... Yoshida et al. (2016). Hisabori T1.Two dis... Mazur et al. (2016). Overlapping toxic eff... Gandini et al. (2017). The transporter Syn... Cantrell and Peers (2017). A mutant of Chl... Kim et al. (2017). Effect of cell cycle ar... Myouga et al. (2018). Stable accumulation ...
AS06 146-100	PsbD D2 protein of PSII (100...	Correa-Galvis et al. (2016). PsbS interact... Malnoë et al. (2014). Thylakoid FtsH Prote... Hojka et al. (2014). Inducible repression ... Huang et al. (2015). Rubisco accumulation ...
AS09 146S	PsbD D2 protein of PSII posi...	Li et al. (2016). A Hard Day's Night: Diat... Li et al. (2014). The nitrogen costs of ph...
AS06 112	PsbE Alfa subunit of Cytochr...	Hojka et al. (2014). Inducible repression ... Grieco et al. (2015). Light-harvesting II ... Nishimura et al. (2016). The N-terminal se... Yang-Er Chen et al. (2017). Responses of p... Hackett et al. (2017). An Organelle RNA Re...
AS06 113	PsbF beta subunit of Cytochr...	Garcia-Cerdan et al. (2008). Antisense inh... Lucinski et al. (2011). Involvement of Deg... Nishimura et al. (2016). The N-terminal se... Yang-Er Chen et al. (2017). Responses of p... Hackett et al. (2017). An Organelle RNA Re...
AS06 157	PsbH Small subunit H of PSII	Verhoeven et al. (2009). Seasonal changes ... Levey et al. (2014). Expression of a nucle... Hackett et al. (2017). An Organelle RNA Re...
AS06 158	PsbI Small subunit I of PSII	Hackett et al. (2017). An Organelle RNA Re...
AS10 692	PsbI Small subunit I of PSII...	Dobakova et. al (2007). Role of the PsbI ...
AS14 2786	PsbN Potosystem II reaction ...	Torabi et al. (2014). PsbN Is Required for...
AS05 092	PsbO 33 kDa of the oxygen ev...	Albus et al. (2012). LCAA, a novel factor ... Casanova-Sáez et al. (2014). Arabidopsis A... Hu et al. (2015). Site-specific Nitrosopro... Albanese et al.(2016). Isolation of novel ... Mazur et al. (2016). Overlapping toxic eff...
AS06 142-33	PsbO 33 kDa of the oxygen ev...	Yang-Er Chen et al. (2017). Responses of p... Sultan et al. (2017). The Reverse Transcri... Gandini et al. (2017). The transporter Syn... Du et al. (2018). Galactoglycerolipid Lipa... Głowacka et al. (2018). Photosystem II Sub...

AS06 142-23	PsbP 23 kDa protein of the o...	Wang et al. (2008). Beta-lactone probes id... Yang-Er Chen et al. (2017). Responses of p...
AS06 167	PsbP 23 kDa protein of the o...	Lang et al. (2011). Simultaneous isolation ... Grassl et al. (2012). Early events in plas... Albanese et al. (2016). Isolation of novel... Pavlovič et al. (2016). Light-induced grad...
AS10 682	PsbP-like protein (sll1418) ...	Ishikawa et al. . (2005) Functional analys... Sveshnikov et al. (2007) The PsbP-like pro... Gandini et al. (2017). The transporter Syn...
AS06 142-16	PsbQ 16 kDa protein of the o...	Grassl et al. (2012). Early events in plas... Albanese et al. (2016). Isolation of novel... Pavlovič et al. (2016). Light-induced grad... Yang-Er Chen et al. (2017). Responses of p...
AS05 059	PsbR 10 kDa protein of PSII	Ido et al. (2014). Cross-Linking Evidence ... Dixit (2015). Sulfur alleviates arsenic to... Albanese et al. (2016). Isolation of novel... Yang-Er Chen et al. (2017). Responses of p... Shen et al. (2016). The existence of C4-bu...
AS03 032	PsbS 22 kDa Lhc-like PSII pr...	Hubbart et al. (2012). The photoprotective...
AS09 533	PsbS 22 kDa Lhc-like PSII pr...	Albus et al. (2012). LCAA, a novel factor ... Zienkiewicz et al. (2013). Light intensity ... Lintala et al. (2013). Arabidopsis tic62 t... Belgio et al. (2015). Light harvesting sup... Dahal et al. (2015). Improved photosynthet... Karlsson et al. (2015). The Arabidopsis th... Pavlovič et al. (2016). Light-induced grad... Chen et al. (2017). Comparison of Photosyn... Krishnan et al. (2017). Large-scale in vit... Yoshida et al. (2016). Hisabori T1. Two dis... Poudyal et al. (2016). Production of super... Ishikawa et al. (2016). NDH-Mediated Cycli... Míguez et al. (2017). Diversity of winter ... Merry et al. (2017). A comparison of pine ... Giovagnetti et al. (2018). A siphonous mor... Głowacka et al. (2018). Photosystem II Sub...
AS05 060	PsbW Small subunit W of PSII	Hackett et al. (2017). An Organelle RNA Re...
AS05 066	PsbX small subunit X of PSII	Hackett et al. (2017). An Organelle RNA Re...
AS06 114	PsbY Small subunit Y of PSII	Von Sydow et al. (2016). The PsbY protein ...

AS16 3692	PTOX Plastid terminal oxidas...	Cournac et al. (2000a). Electron flow betw... Josse et al. (2000). A Plastid Terminal Ox... Cournac et al. (2000b). Flexibility in pho...
AS10 705	P-Tyr Phosphotyrosine	Tiganis et al. (1999). The protein-tyrosin... Garton et al. (1996). Identification of p1... Garton & Tonks (1999). Regulation of fibro...
AS13 2634	PYR1 Abscisic acid receptor ...	Barghetti et al. (2017). Heat-shock protei...
AS10 700	RA Rubisco activase	Jedmowski et al. (2014). Comparative analy... Chen et al. (2013). Physiological Mechanis... Yin et al. (2014). Characterization of Rub... Wiczarz et al. (2014). Enhanced chloroplas... Jurczyk et al. (2015). Evidence for altern... Hu et al. (2015). Site-specific Nitrosopro... Yin et al. (2016). Interplay between mitog... Wei et al. (2017). Enhancing photosyntheti...
AS10 1489	Rabbit anti-Chicken IgY (H&L),...	Panayiotou et al. (2018). Viperin restrict...
AS10 1524	Rabbit anti-Rat IgG (H&L), HRP...	Quian et al. (2015). Bone Marrow-Derived M...
AS11 1810	RACK1A Receptor for activate...	Speth et al. (2013). RACK1 scaffold protei... Vera-Estrella et al. (2014). Comparative 2...
AS13 2729	RAF2 Rubisco accumulation fa...	Aigner et al. (2017). Plant RuBisCo assemb... Fristedt et al. (2018). RAF2 is a RuBisCO ...
AS10 716	Ramy 3D Alpha-amylase isozym...	Ho et al. (2017). A calcineurin B-like pr...
AS01 017	RbcL Rubisco large subunit, ...	Robert et al. (2015). Leaf proteome rebala... Morash et al. (2007). Macromolecular dynam... MacKenzie et al. (2005). Inorganic carbon ... Schofield et al. (2003). Changes in macrom...

AS03 037	RbcL Rubisco large subunit, ...	Young et al. (2015). Antarctic phytoplankt... Mayfield et al. (2014). Rubisco Expression... Liang et al. (2014). Cyanophycin mediates ... Pandey and Pandey-Rai (2014). Modulations ... Kolesinski et al. (2014). Rubisco Accumula... Janeczko et al. (2015). Disturbances in pr... Li at al. (2015). Salt stress response of ... Krasuska et al. (2015). Switch from hetero... Heinnickel et al. (2016). Tetratricopeptid... Meng et al. (2016). Physiological and prot... Arena et al. (2017). Eco-physiological and... Ribeiro et al. (2017). Increased sink stre... Kolesinski et al. (2017). Is RAF1 protein ... Baumgart et al. (2017). Heterologous expre... Neto et al. (2017). Cyclic electron flow, ... Jespersen et al. (2017). Metabolic Effects... Kim et al. (2017). Effect of cell cycle ar... Wu et al. (2018). Control of Retrograde Si... Ravi et al. (2018). Separation Options for... Pao et al. (2018). Lamelloplasts and minic... Castiglia et al. (2016). High-level expres...
AS03 037A	RbcL Rubisco large subunit, ...	Ye et al. (2017). EMB2738, which encodes a...
AS01 017S	RbcL Rubisco positive contro...	Wu et al. (2014). Large centric diatoms al... Young et al. (2015). Antarctic phytoplankt... Li et al. (2014). The nitrogen costs of ph... Vandenhecke et al. (2015). Changes in the ... Li et al. (2016). Interactive effects of n...
AS07 259	RbcS Rubisco small subunit (...)	Sun et al. (2014). The response of rbcL, r... Kim et al. (2015). Cytosolic targeting fac... Dahal et al. (2015). Improved photosynthes... Robert et al. (2015). Leaf proteome rebala... Krasuska et al. (2015). Switch from hetero... Huang et al. (2015). Rubisco accumulation ... Yin et al. (2016). Interplay between mitog... Hartings et al. (2017). The DnaJ-Like Zinc... Ravi et al. (2018). Separation Options for...
AS14 2820	RBP40 38 kDa RNA-binding pro...	Schwarz at al.. (2007). Synthesis of the D...
AS11 1627	RBR1 Retinoblastoma related ...	Ábrahám et al. (2011). Immunodetection of ... Cheng et al. (2013). Down-regulation of mu... Horvath et al. (2017). Arabidopsis RETINOB...

AS07 214	RFA Baker's yeast replicatio...	Deng et al. (2014). RPA antagonizes microh... Holstein et al. (2014). Interplay between ... Yeeles et al. (2015). Regulated eukaryotic... Bentensen et al. (2013). MRX protects fork... Deshpande et al. (2017). Structural Basis ... Chen et al. (2017). Dihydrocoumarin, an HD...
AS07 214-100	RFA Baker's yeast replicatio...	Deng et al. (2014). RPA antagonizes microh... Holstein et al. (2014). nterplay between N...
AS11 1630	RGA DELLA protein RGA	Leone et al. (2014). To grow or defend? Lo... Crocco et al. (2015). The transcriptional ... Shahnejat-Bushehri et al. (2016). Arabidop...
AS13 2714	RH3 RNA helicase, chloroplas...	Asakura et al. (2012). Chloroplast RH3 DEA...
AS09 574	Rnr3 Ribonucleoside-diphosph...	Lafuente-Barquero et al. (2017). The Smc5/... Williams et al. (2017). The role of RNase ... Schmidt et al. (2017). Alterations in cell... Graf et al. (2017). Telomere Length Determ...
AS11 1804	RPB1 RNA polymerase II subun...	Dolata et al. (2015). NTR1 is required for...
AS08 278	R-PC R-phycocyanin	Gunnelius et al. (2014). The omega subunit... Gantt & Lipschultz (1974). Phycobilisomes...
AS11 1738	RPL1 50S ribosomal protein L...	Linhartová et al. (2014). Accumulation of ...
AS15 2876	RPL2 Ribosomal protein L2 (c...	Jeon et al. (2017). Functional characteriz...
AS12 2115	RPL37 Ribosomal protein L37 ...	Ramundo et al. (2013). Repression of Essen... Couse et al. (2017). Autophagic flux is re... Couso et al. (2017). Autophagic flux is re...
AS15 2867	RpoB RNA polymerase beta sub...	Zhang et al. (2017). PDM3, a pentatricopep...
AS08 309	RPS1 30S ribosomal protein S...	Carmel at al. (2013). Structural model, ph... Plominsky et al. (2013). Dinitrogen Fixati...
AS12 2114	RPS12 Ribosomal protein S12 ...	Ramundo et al. (2013). Repression of Essen... Zoschke et al. (2016). The PPR-SMR protein...
AS12 2111	RPS14 40S ribosomal protein ...	Linster et al. (2015). Downregulation of N...
AS07 218	Rubisco 557 kDa hexadecamer	Rohnke et al. (2018). RcaE-Dependent Regul... Feifei et al. (2014). Comparison of Leaf P... Wen and Zhang (2014). Salsola laricifolia,... Wang et al. (2017). Re-creation of a Key S... Zhang et al. (2017). Composition of photos...
AS15 3067	S10 Mitochondrial ribosomal ...	Kwaśniak et al. (2013). Silencing of nucle...
AS15 3068	S4 Mitochondrial ribosomal s...	Kwaśniak et al. (2013). Silencing of nucle...
AS01 019	S5a human 26S proteasome sub...	Lundgren et al. (2003). Use of RNA interfe...
AS12 1855	S6K1/2 Ribosomal S6 kinase ...	Pfeiffer et al. (2016). Integration of lig...
AS13 2664	S6K1-2 Ribosomal-protein S6 ...	Wang et al. (2017). Reciprocal Regulation ...

AS07 256	SAL1 Sal1 phosphatase	Chan et al. (2016). Sensing and signaling ...
AS08 326	Sar1 Secretion-associated an...	Liu et al. (2014). SCFSLF-mediated cytosol... Shen et al. (2014). The fronds tonoplast q...
AS13 2657	SbtA Sodium-dependent bicarb...	Holland et al. (2016). Impacts of genetica... Gandini et al. (2017). The transporter Syn...
AS03 029	SCGB2A2 Mammaglobin-A	Sjödin et al (2008). Mammaglobin and lipop... Fischer et al. (2014). Differential expres...
AS09 532A	SE Serrate RNA effector mole...	Li et al. (2016). Intron Lariat RNA Inhibi...
AS08 327	Sec21p Gamma subunit, COP ve...	Pimpl et al (2000). In situ localization a... Hopff et al. (2013). The plasma membrane p... Tanaka et al. (2013). Cell Polarity and Pa... Derbyshire et al. (2015). Proteomic Analys... Wattelet-Boyer et al. (2016). Enrichment o... Nagel et al. (2017). Arabidopsis SH3P2 is ... Kitakura et al. (2017). BEN3/BIG2 ARF GEF ...
AS13 2686	Sec6 Exocyst complex subunit	Kulich et al. (2018). Deubiquitinase OTU5 ...
AS05 075	SHMT Serine hydroxymethyltra...	Rurek et al. (2018). Mitochondrial Biogene... Camejo et al. (2012).Salinity-inducedchang... Wei et al. (2013). Folate polyglutamylatio... Long et al. (2015). Contributions of photo... Yin et al. (2016). Comprehensive Mitochond... Rurek et al. (2018). Cold and Heat Stress ...
AS09 495	SIP1 Small basic intrinsic p...	Ishikawa et al. (2005). Novel type aquapor...
AS09 496	SIP2 Small basic intrinsic p...	Ishikawa et al. (2005). Novel type aquapor... Barghetti et al. (2017). Heat-shock protei...
AS08 344	slr1641 ATP-dependent chaper...	Gonzalez-Esquer and Vermaas (2013). ClpB1 ...
AS07 244	SLT2 Sodium sulfate transpor...	Pootakham et a. (2010). Identification and... Malnoë et al. (2014). Thylakoid FtsH Prote...
AS10 847	Sml1 Suppressor of Mec1 leth...	Poli et al. (2012).dNTP pools determine fo... Azad et al. (2013). Depletion of Cellular ... Singh et al. (2014). Anti-cancer drug KP10... Mertz et al. (2015). Colon cancer-associat... Dmowski et al. (2017). Mutations in the No... Golla et al. (2017). A systematic assessme...
AS07 266	SMT1 Sterol methyltransferas...	Yoshimoto et al. (2014). Quality control o... LaMontagne et al. (2016). Isolation of Mic... Yang et al. (2016). Arabidopsis PROTEASOME...
AS08 358	SNCA Alpha-synuclein	Brännström et al. (2014). A generic method...
AS09 540	SOD1 aa 131-153 superoxide d...	Kiskinis et al. (2014). Pathways Disrupted...

AS10 697	Sporamin	Maeshima et al. (1985) Characterization of... Hattori et al. (1985) Molecular cloning an...
AS03 035A	SPS Sucrose phosphate syntha...	Zhang et al. (2014). Heterologous expressi...
AS06 185	SPS Sucrose phosphate syntha...	Rounis et al. (2014). Seeded and Parthenoc... Seger et al. (2014). Impact of concurrent ...
AS13 2635	SRK2E Ser/Thr-protein kinase...	Wang et al. (2017). Reciprocal Regulation ...
AS10 1601	STN8 Serine/threonine-protei...	Li et al. (2015). Effect of hydrogen sulfi... Flood et al. (2014). Natural variation in ... Yin et al. (2012). Photosystem II Function...
AS15 3080	STT7 Serine/threonine-protei...	Lameille et al. (2009). Analysis of the ch...
AS08 308	SUMO1 Small ubiquitin-like m...	Kong et al. (2014). Quantitative proteomic... Liu et al. (2014). SUMO E3 ligase AtMMS21 ... Tomanov et al. (2014). Arabidopsis PIAL1 a... Guo et al. (2017). Sumoylation stabilizes ...
AS08 349	SUMO3 Small ubiquitin-like m...	Saleh et al. (2015). Posttranslational Mod...
AS15 2830	SUS1 Sucrose synthase 1	Kleczkowski LA & Decker DD (2015) Sugar ac...
AS13 2725	SVR4 Supressor of variegatio...	Powikrowska et al. (2013). SVR4 of variega...
AS13 2726	SVR4-like Supressor of varie...	Powikrowska et al. (2013). SVR4 of variega...
AS04 041	THP Allopregnanolone	Boher et al. (2014). The effects of betame... Rault et al. (2015). Allopregnanolone and ... Bennett et al. (2015). Prenatal Stress Alt... Cumberland et al. (2017). Effects of combi...
AS04 041S	THP Allopregnanolone steroid...	Lee at al. (2014). Progesterone and allopr...
AS08 293	Tic110 chloroplast inner env...	Q et al. (2014). Young Leaf Chlorosis 2 en... Wu et al. (2018). Control of Retrograde Si...
AS10 709	Tic40 Inner envelope membran...	Brillouet et al. (2013).The tannosome is a... Wang et al. (2014). Maintenance of Chlorop... Yin et al. (2014). The membrane proteome o... Román et al. (2015). Non-redundant contrib... Yang et al. (2016). OsCLT1, a CRT-like tra... Yang et al. (2016). LIR1 regulates light-d... Fernández-San Millán et al. (2018). Physio... Wu et al. (2018). Control of Retrograde Si...
AS09 482	TIP1 Tonoplast intrinsic pro...	Kwon et al. (2018). AtCAP2 is crucial for ...
AS09 493	TIP1;1, TIP1;2 tonoplast int...	Suga et al. (2001). Specificity of the acc... Mao and Sun (2015). Arabidopsis seed-speci...
AS09 492	TIP1;1,TIP1;2 tonoplast intr...	Suga et al. (2001). Specificity of the acc...
AS09 509	TIP2;1 tonoplast intrinistic...	Sakurai et al. (2008). Tissue and cell-spe...
AS09 510	TIP2;2 Tonoplast intrinistic...	Sakurai et al. (2008). Tissue and cell-spe...
AS09 511	TIP2;2 tonoplast intrinistic...	Sakurai et al. (2008). Tissue and cell-spe...

AS15 2903	TKL1 transketolase (chloropl...	Rocha et al. (2014). Phosphorylation of Ar...
AS08 369	Tlp18.3 Thylakoid lumen 18.3...	Zienkiewicz et al. (2013).Light intensity ...
AS07 239	Toc159 Chloroplast outer env...	Wu et al. (2018). Control of Retrograde Si...
AS07 236	Toc33 chloroplast outer enve...	Reddick et al. (2007). In vitro comparativ...
AS07 235	Toc34 chloroplast outer enve...	Reddick et al. (2007). In vitro comparativ...
AS07 238	Toc34 Chloroplast outer enve...	Formighieri et al. (2012). Biogenesis of p... Kim et al. (2015). Cytosolic targeting fac... Warakanont et al. (2015). Chloroplast lipi...
AS08 292	Toc75 Outer chloroplast memb...	Ulrich et al. (2012).Chloroplast β -BarrelP...
AS08 351	Toc75 Protein TOC75-3, chlor...	Vera-Estrella et al. (2014). Comparative 2... Hsueh et al. (2014). The chloroplast outer... Sasaki and Yamamoto (2015). Arabidopsis LA...
AS05 096	TOP2 DNA topoisomerase II	Xie S & Lam E (1994) Abundance of nuclear ...
AS12 2608	TOR Target of rapamycin	Garcia et al. (2017). Maize defective kern...
AS16 3112	Transthyretin 39-44, amyloid s...	Goldsteins et al. (1999). Exposure of cryp...
AS10 680	Tubulin alpha chain	Juszczak et al. (2012). Natural genetic va... Ho et al. (2017). A calcineurin B-like pro... Nasir (2016). Analysis of signal transduct... Wei et al. (2017). Light Intensity is Impo... Kwon et al. (2018). AtCAP2 is crucial for ...
AS10 681	Tubulin beta chain	Heinnickel et al. (2016). Tetratricopeptid...
AS15 3055	TYLCV C1 Tomato yellow leaf ...	Gorovits et al. (2013). Progressive aggreg...
AS15 3056	TYLCV C2 Tomato yellow leaf ...	Gorovits et al. (2013). Progressive aggreg...
AS15 3057	TYLCV C3 Tomato yellow leaf ...	Gorovits et al. (2013). Progressive aggreg...
AS15 3058	TYLCV C4 Tomato yellow leaf ...	Gorovits et al. (2013). Progressive aggreg...
AS15 3048	TYLCV CP Tomato yellow leaf ...	Gorovits et al. (2013). Progressive aggreg... Gorovits et al. (2017). The six Tomato yel...
AS15 3059	TYLCV V2 Tomato yellow leaf ...	Moshe et al. (2015). The Tomato yellow lea...
AS14 2829	UAGPase UDP-GlcNAc pyrophosp...	Fernández-San Millán et al. (2018). Physio... https://doi.org/10.1093/jxb/ery148 . Kleczkowski LA & Decker DD (2015) Sugar ac...
AS08 307	UBQ11 Ubiquitin	Ustun et al. (2013). The Xanthomonas campe... Kong et al. (2014). Quantitative proteomic... Hamorsky et al. (2015). N-Glycosylation of... Moshe at al. (2015). Tomato plant cell dea... Ferrández-Ayela et al. (2013). Arabidopsis... Zulet et al. (2013). Proteolytic Pathways ... Gorovits et al. (2017). The six Tomato yel... Witzel et al. (2017). A Proteomic Approach...
AS08 307A	UBQ11 Ubiquitin (affinity pu...	Krasuska et al. (2016). Nitric oxide-polya...

AS12 1850	UCP Uncoupling protein	Liu et al. (2015). Silencing of mitochondr... Grabelnych et al. (2014). Mitochondrial En... Barreto et al. (2014). Overexpression of U... Long et al. (2015). Contributions of photo... Florez-Sarasa et al. (2016). Impaired cycl... Garmash et al. (2017). Expression profiles...
AS05 086	UGPase UDP-glucose pyrophosp...	Castellano et al. (2016). A pathogenic lon... Liu et al. (2016). iTRAQ-based quantitativ... Hsu et al. (2016). Super-resolution riboso... Schalk et al. (2017). Small RNA-mediated r... Howden et al. (2017), Quantitative analysi... Nagel et al. (2017). Arabidopsis SH3P2 is ... Vincent et al. (2017). A genome-scale anal... Hartmann et al. (2018). Subcellular Compar...
AS14 2813	UGPase UDP-glucose pyrophosp...	Kleczkowski LA & Decker DD (2015) Sugar ac...
AS07 213	V-ATPase Epsilon subunit of ...	LaMontagne et al. (2016). Isolation of Mic... Jiskrová et al. (2016). Extra- and intrace... Barkla et al. (2016). Single-cell-type qua... Liu et al. (2016). iTRAQ-based quantitativ... Wattelet-Boyer et al. (2016). Enrichment o... Xing et al. (2016). Proteome Profile of St... Vera-Estrella et al. (2017). Cadmium and z... Nagel et al. (2017). Arabidopsis SH3P2 is ... Lynch et al. (2017). Multifaceted plant re... Zhu et al. (2018). A comprehensive proteom...
AS09 577	V-ATPase Epsilon subunit of ...	McLoughlin et al. (2012). TheSnf1-relatedp...
AS09 466	V-ATPase, a Vacuolar H+ ATPa...	Yoshihiro et al. (2004). Zinc transporter ... Fumiyoshi et al. (2005). Novel type aquapo... Migocka et al. (2013). NO3 (-)/H(+) Antipo... Xing et al. (2016). Proteome Profile of St...
AS09 467	V-ATPase, A Vacuolar H+-ATPa...	Yoshihiro et al. (2006) Immunochemical ana... Barkla et al. (2016). Single-cell-type qua... Vera-Estrella et al. (2017). Cadmium and z...
AS09 502	V-ATPase, A vacuolar H+-ATPa...	Kawamura et al. (2000). Tissue specificity... Matsuura-Eno et al. (1992). Mechanism of t... Nakanishi & Maeshima (1998). Molecular clo... Smart et al. (1998). Genes involved in osm...
AS09 468	V-ATPase, c Vacuolar H+-ATPa...	Barkla et al. (2016). Single-cell-type qua... Vera-Estrella et al. (2017). Cadmium and z...

AS07 212	VDAC1 Voltage-dependent anio...	Alcántar-Aguirre et al.(2013).ATP produced... Takahashi et al. (2014). Transport of rice... Hsueh et al. (2014). The chloroplast outer... Rurek et al. (2015). Biogenesis of mitocho... Li et al. (2015). A Chaperone Function of ... de Michele et al. (2016). Free-Flow Electr... Yin et al. (2016). Comprehensive Mitochond... Wang and Auwerx (2017). Systems Phytohormo... Kang et al. (2018). Autophagy-related (ATG... Zhu et al. (2018). A comprehensive proteom...
AS12 1849	V-PPase vacuolar H ⁺ -pyrophos...	Migocka et al. (2014). Molecular and bioch... Migocka et al. (2015). Cucumber Metal Tran...
AS13 2633	VPS29 Vacuolar protein sorti...	Munch et al. (2015). Retromer Contributes ...
AS06 127	VTG Sole vitellogenin	Guzman et al. (2008) Vitellogenin, steroi...
AS11 1759	WUS WUSCHEL protein	Dory et al. (2016). Kinase-Associated Phos...
AS08 319	XTH-Xet XET5 Xyloglucan xylo...	Hrmova et al. (2007) A barley xyloglucan x... Tsuchiya et al. (2015). Distribution of XT... Liu et al. (2013). Brittle Culm1, a COBRA-...
AS07 267	Xylose	Mathieu-Rivet et al. (2013). Exploring the... Ebert et al. (2015). Identification and Ch... Hanania et al. (2017). Establishment of a ... Nakanishi et al. (2017). Protection of Hum...
AS07 273	Ycf3 Photosystem I assembly ...	Naver et al. (2001). Functional studies of... Heinrickel et al. (2016). Tetratricopeptid... Boudreau et al. (1997) The chloroplast ycf...
AS07 274	Ycf4 photosystem I assembly ...	Naver et al. (2001). Functional studies of... Heinrickel et al. (2016). Tetratricopeptid... Boudreau et al. (1997) The chloroplast ycf...
AS12 1848	ZCP2 Zinc Chaperone Protein	Hsieh et al. (2013). The Proteome of Coppe...