

Table S4.
Subfamily 4A.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Eukaryota	Predicted protein		<i>Physcomitrella patens</i> subsp. <i>patens</i> .	EDQ78307.1	XP_001757076.1	A9RSI0	
Eukaryota	Chalcone synthase 8		<i>Zea mays</i> (Maize).	ACG34408.1	NP_001149157.1	B6TBC5 [T]	
Eukaryota	Putative uncharacterized protein Sb05g019856		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES09850.1	XP_002450862.1	C5Y3D7	
Eukaryota	Putative uncharacterized protein Sb05g019850		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES09849.1	XP_002450861.1	C5Y3D5	
Eukaryota	Putative uncharacterized protein Sb08g001230		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES15556.1	XP_002441718.1	C5YQK0	
Eukaryota	Putative uncharacterized protein Sb05g019820		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES09847.1	XP_002450859.1	C5Y3C7	
Eukaryota	Putative uncharacterized protein Sb02g001870		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EER95816.1	XP_002459295.1	C5X8N2	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAZ04118.1		A2YM07	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAF21742.1, EAZ40065.1	NP_001059828.1	Q0D5Y1	
Eukaryota	Putative chalcone synthase		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAD30750.1		Q69UB7	
Eukaryota	Putative chalcone synthase 1		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAC83820.1, BAF21744.1	NP_001059830.1	Q6Z4M0	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAZ04123.1		A2YM12	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	EAZ40067.1		A3BKH8	

Eukaryota	Putative chalcone synthase		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAD30758.1, BAF21743.2	NP_001059829.2	Q69UA9	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAZ04121.1		A2YM10	
Eukaryota	Putative chalcone synthase		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAC79571.1, BAD31021.1, BAF21259.1	NP_001059345.1	Q8LIL0	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	EEE66942.1		B9FWK5	
Eukaryota	Putative uncharacterized protein Sb02g034030		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EER99419.1	XP_002462898.1	C5X9A8	
Eukaryota	Putative uncharacterized protein		<i>Zea mays</i> (Maize).	ACF78730.1, ACF84797.1	NP_001140848.1	B4F9D7 [T]	
Eukaryota	Putative uncharacterized protein		<i>Zea mays</i> (Maize).	ACN36251.1		C0PM35 [T]	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	EEE52211.1		B9GB05	
Eukaryota	Os11g0529900 protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	ABA94120.1, BAF28371.1	NP_001068008.1	Q2R3A4	
Eukaryota	Putative uncharacterized protein Sb05g019870		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES09852.1	XP_002450864.1	C5Y3D9	
Eukaryota	Os11g0529800 protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	ABA94119.1, BAF28370.1	NP_001068007.1	Q2R3A5	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAY81153.1		A2ZEW9	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	ABA94039.1, BAF28369.1, EAZ18575.1	NP_001068006.1	Q2R3A8	
Eukaryota	Putative uncharacterized protein Sb05g019890		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES08596.1	XP_002449608.1	C5Y3E3	

Eukaryota	Putative uncharacterized protein Sb05g019950		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES08603.1	XP_002449615.1	C5Y3P4	
Eukaryota	Putative uncharacterized protein Sb05g019940		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES08602.1	XP_002449614.1	C5Y3P3	
Eukaryota	Putative uncharacterized protein Sb05g019910		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES08598.1	XP_002449610.1	C5Y3E6	
Eukaryota	Putative uncharacterized protein Sb04g022590		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES05236.1	XP_002452260.1	C5XU83	
Eukaryota	Putative uncharacterized protein Sb04g022860		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES06976.1	XP_002454000.1	C5XUV6	
Eukaryota	Putative uncharacterized protein Sb02g034010		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EER99417.1	XP_002462896.1	C5X9A6	
Eukaryota	Putative uncharacterized protein Sb02g034020		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EER99418.1	XP_002462897.1	C5X9A7	
Eukaryota	Putative uncharacterized protein Sb08g003170		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES15677.1	XP_002441839.1	C5YRS1	
Eukaryota	Putative uncharacterized protein Sb05g022510		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES08732.1, EES09995.1	XP_002449744.1, XP_002451007.1	C5Y4Z2	
Eukaryota	Putative uncharacterized protein		Oryza sativa subsp. japonica (Rice).	BAD31062.1, EAZ03974.1, EAZ17461.1		A2YLL3, Q69RQ3	
Eukaryota	cDNA clone:002-173-D05, full insert sequence		Oryza sativa subsp. japonica (Rice).	BAC83267.1, BAD31067.1, BAF21633.1, BAG99083.1, EAZ03975.1	NP_001059719.1	A2YLL4, Q6ZIJ3 [T]	
Eukaryota	Putative uncharacterized protein		Oryza sativa subsp. japonica (Rice).	EAZ39915.1		A3BK26	
Eukaryota	Putative uncharacterized protein Sb07g024260		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES15184.1	XP_002445689.1	C5YN83	

Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EEC78715.1		B8AZ72	
Eukaryota	Putative uncharacterized protein OSJNBb0067H15.2		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	AAT47095.1		Q6I5C9	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	EEE62741.1		B9FN38	
Eukaryota	Putative uncharacterized protein OSJNBb0067H15.3		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	AAT44240.1, AAT47096.1		Q6L4H7	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAY96968.1		A2Y1K8	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAF16836.1, EEE62742.1	NP_001054922.1	Q0DJY7	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	AAT44238.1, AAT47094.1, EEE62740.1		Q6L4H9	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAY96966.1		A2Y1K6	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAY96969.1		A2Y1K9	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	AAT47098.1, EEE62743.1		Q6I5C6	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAY77848.1		A2Z5G4	
Eukaryota	Putative chalcone synthase		<i>Oryza sativa</i> (Rice).	AAL77133.1, AAP52417.1, EAZ15459.1		Q7XGB4, Q8SAU3	
Eukaryota	Os10g0177300 protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAF26158.2	NP_001064244.2	Q0IYQ7	
Eukaryota	Os10g0167900 protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAF26141.2	NP_001064227.2	Q0IYS4	

Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. japonica (Rice).	AAN04188.1, AAP52307.1, EAZ15421.1		Q8LM05	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. indica (Rice).	EAY77809.1		A2Z5C5	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. indica (Rice).	EAY77810.1		A2Z5C6	
Eukaryota	Putative chalcone synthase		<i>Oryza sativa</i> (Rice).	AAM01005.1, AAN04192.1, AAP52312.1, EAZ15422.1		Q7G630, Q8S762	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. japonica (Rice).	EAZ24017.1		A3A9M8	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. indica (Rice).	EAY94419.1		A2XUA9	
Eukaryota	Putative chalcone synthase		<i>Oryza sativa</i> (Rice).	AAK95679.1, AAN04133.1, AAP52217.1, BAF26111.1, EAZ15365.1	NP_001064197.1	Q7XGM8, Q94GT4	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. indica (Rice).	EAY77763.1		A2Z579	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. japonica (Rice).	EAZ24018.1		A3A9M9	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. indica (Rice).	EAY94420.1		A2XUB0	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. indica (Rice).	EAY93518.1		A2XRQ8	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. japonica (Rice).	EEE60711.1		B9FEC8	

Eukaryota	OSJNBa0079M09.15 protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	CAE05340.2, CAH66072.1		Q01ME3, Q7XL19	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	EAZ18766.1		A3CCF3	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EAY84129.1		A2WZW9	
Eukaryota	cDNA clone:006-208-A07, full insert sequence		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	ABA94265.2, BAF28472.1, BAG87751.1	NP_001068109.1	Q2R2G0 [T]	
Eukaryota	Putative uncharacterized protein Sb05g010090		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES09672.1	XP_002450684.1	C5Y219	
Eukaryota	Chalcone synthase-like		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAD53000.1, BAD53112.1		Q5ZBB6	
Eukaryota	Putative uncharacterized protein		<i>Oryza sativa</i> subsp. <i>indica</i> (Rice).	EEC71032.1		B8ABH3	
Eukaryota	Putative uncharacterized protein Sb05g008850		<i>Sorghum bicolor</i> (Sorghum) (<i>Sorghum vulgare</i>).	EES09649.1	XP_002450661.1	C5Y1V7	
Eukaryota	OSIGBa0148I18.6 protein		<i>Oryza sativa</i> (Rice).	CAH65769.1		Q01N31	
Eukaryota	cDNA clone:J023145I15, full insert sequence		<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice).	BAF13917.1, BAG94870.1, CAE04488.2	NP_001052003.1	Q7XMR1 [T]	
Eukaryota	hypothetical protein		<i>Selaginella moellendorffii</i>	EFJ32542.1	XP_002966515.1		
Eukaryota	hypothetical protein		<i>Selaginella moellendorffii</i>	EFJ16602.1	XP_002982357.1		
Eukaryota	Octaketide synthase		<i>Hypericum perforatum</i> (St. John's wort).	ACF37207.1		B4YPU5 [T]	
Eukaryota	Polyketide synthase		<i>Hypericum perforatum</i> (St. John's wort).	ABP98923.1		A8QW47 [T]	

Eukaryota	Putative uncharacterized protein		Glycine max (Soybean) (<i>Glycine hispida</i>).	ACU19691.1		C6TCY9 [T]	
Eukaryota	Predicted protein		<i>Physcomitrella patens</i> subsp. <i>patens</i> .	EDQ78198.1	XP_001756967.1	A9RSH9	
Eukaryota	Chalcone synthase, putative	2.3.1.74	<i>Ricinus communis</i> (Castor bean).	EEF42075.1	XP_002520289.1	B9S2S0	
Eukaryota	Chalcone synthase-like protein	2.3.1.74	<i>Populus trichocarpa</i> (Western balsam poplar) (<i>Populus balsamifera</i> subsp. <i>trichocarpa</i>).	EEE84002.1	XP_002299197.1	B9GLZ2	
Eukaryota	3-methyl-1-(trihydroxyphenyl)butan-1-one synthase	2.3.1.156	<i>Psilotum nudum</i> (Whisk fern) (<i>Lycopodium nudum</i>).	BAA87923.1		Q9SLX9 [T], Q9SLX9.1	
Eukaryota	Chalcone synthase		<i>Aquilaria sinensis</i> .	ABM73433.1		A2I5G1 [T]	
Eukaryota	Benzophenone synthase		<i>Hypericum perforatum</i> (St. John's wort).	ABP49616.1		A4ZYX5 [T]	
Eukaryota	Trihydroxybenzophenone synthase	2.3.1.-	<i>Hypericum androsaemum</i> (Tutsan).	AAL79808.1		Q8SAS8 [P], Q8SAS8.1	
Eukaryota	Polyketide synthase type III isoform 1	2.3.1.-	<i>Wachendorfia thyrsiflora</i> (Bloodroot).	AAW50921.1		Q3ZMG6 [T]	
Eukaryota	Bibenzyl synthase		<i>Bromheadia finlaysoniana</i> (Orchid).	CAA10514.1		Q9ZRS2 [T]	
Eukaryota	Chalcone synthase		<i>Oncidium Gower Ramsey</i> .	AAZ32093.1		Q45RTO	
Eukaryota	Chalcone synthase	2.3.1.74	<i>Phalaenopsis</i> hybrid cultivar.	AAX54693.1		Q58G81	
Eukaryota	Bibenzyl synthase	2.3.1.-	<i>Phalaenopsis</i> sp.	AAB65094.1, CAA56276.1, CAA56277.1		P53416 [T], P53416.1	
Eukaryota	Chalcone synthase	2.3.1.74	<i>Phalaenopsis</i> hybrid cultivar.	AAV70116.1		Q5PU46	

Eukaryota	Chalcone synthase		Oncidium Gower Ramsey.	AAZ32095.1		Q45RS8	
Eukaryota	Chalcone synthase		Oncidium Gower Ramsey.	AAZ32094.1		Q45RS9	
Eukaryota	Polyketide synthase		Plumbago indica.	BAF44539.1		A1IHK4 [T]	
Eukaryota	Putative stilbene synthase		Polygonum cuspidatum (Japanese knotweed).	ABE68892.1, ABE68893.1		Q1PA49 [T]	
Eukaryota	Aloesone synthase		Rheum palmatum.	AAS87170.1		Q6R313 [T]	
Eukaryota	Type III polyketide synthase 3		Polygonum cuspidatum (Japanese knotweed).	ACC76752.1		B2MWQ7 [T]	
Eukaryota	Pentaketide chromone synthase		Aloe arborescens (Kidachi aloe).	AAX35541.1		Q58VP7 [P]	2D3M, 2D51, 2D52
Eukaryota	Pentaketide chromone synthase		Aloe arborescens (Kidachi aloe).	AAX35541.1		Q58VP7 [P]	2D3M, 2D51, 2D52
Eukaryota	Pentaketide chromone synthase		Aloe arborescens (Kidachi aloe).	AAX35541.1		Q58VP7 [P]	2D3M, 2D51, 2D52
Eukaryota	Type III polyketide synthase		Aloe arborescens (Kidachi aloe).	ACR19998.1		C4NF91 [T]	
Eukaryota	Aloesone synthase		Aloe arborescens (Kidachi aloe).	ABS72373.1		C4MBZ5 [T]	
Eukaryota	Octaketide synthase		Aloe arborescens (Kidachi aloe).	AAT48709.1		Q3L7F5 [T]	
Eukaryota	Type III polyketide synthase		Aloe arborescens (Kidachi aloe).	ACR19997.1		C4NF90 [T]	
Eukaryota	Stilbene synthase		Psilotum nudum (Whisk fern) (Lycopodium nudum).	BAA87925.1		Q9SLX7 [T]	

Eukaryota	Stilbene synthase		<i>Psilotum nudum</i> (Whisk fern) (<i>Lycopodium nudum</i>).	BAA87924.1		Q9SLX8 [T]	
Eukaryota	Naringenin-chalcone synthase B	2.3.1.74	<i>Petunia hybrida</i> (<i>Petunia</i>).	CAA32732.1		P22924 [T], P22924.1	
Eukaryota	Naringenin-chalcone synthase B	2.3.1.74	<i>Ipomoea triloba</i> (Trilobed morning glory).	AAC49035.1		P48404, P48404.1	
Eukaryota	Naringenin-chalcone synthase B	2.3.1.74	<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAC49030.1		P48398, P48398.1	
Eukaryota	Naringenin-chalcone synthase B	2.3.1.74	<i>Ipomoea nil</i> (Japanese morning glory) (<i>Pharbitis nil</i>).	AAC49029.1		P48396, P48396.1	
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	<i>Ipomoea triloba</i> (Trilobed morning glory).	AAC49034.1		P48403, P48403.1	
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	<i>Ipomoea cordatotriloba</i> (Cotton morning glory).	AAC49026.1		P48393, P48393.1	
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	<i>Ipomoea trifida</i> (Morning glory).	AAC49032.1		P48401, P48401.1	
Eukaryota	Naringenin-chalcone synthase B	2.3.1.74	<i>Ipomoea cordatotriloba</i> (Cotton morning glory).	AAC49027.1		P48394, P48394.1	
Eukaryota	Naringenin-chalcone synthase B	2.3.1.74	<i>Ipomoea trifida</i> (Morning glory).	AAC49033.1		P48402, P48402.1	
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	<i>Ipomoea platensis</i> (Morning glory).	AAA62497.1		P48400 [T], P48400.1	
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	<i>Ipomoea nil</i> (Japanese morning glory) (<i>Pharbitis nil</i>).	AAC49028.1		P48395, P48395.1	
Eukaryota	Naringenin-chalcone synthase C	2.3.1.74	<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAC49031.1		P48399, P48399.1	
Eukaryota	Chalcone synthase-A		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAB62590.1		O04970	

Eukaryota	Chalcone synthase-A		<i>Ipomoea purpurea</i> (Common morning glory) (Pharbitis purpurea).	AAB62588.1		O04968	
Eukaryota	Chalcone synthase-A		<i>Ipomoea purpurea</i> (Common morning glory) (Pharbitis purpurea).	AAB62589.1		O04969	
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	<i>Ipomoea purpurea</i> (Common morning glory) (Pharbitis purpurea).	AAB02620.1, AAB62582.1, AAB62584.1, AAB62585.1, AAB62586.1, AAB62591.1		O04971, P48397, P48397.2	
Eukaryota	Chalcone synthase-A		<i>Ipomoea purpurea</i> (Common morning glory) (Pharbitis purpurea).	AAB62587.1		O04967	
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	<i>Ipomoea purpurea</i> (Common morning glory) (Pharbitis purpurea).	AAB02620.1, AAB62582.1, AAB62584.1, AAB62585.1, AAB62586.1, AAB62591.1		O04971, P48397, P48397.2	
Eukaryota	Chalcone synthase-A		<i>Ipomoea purpurea</i> (Common morning glory) (Pharbitis purpurea).	AAB62583.1		O04966	
Eukaryota	Polyketide synthase type III	2.3.1.-	<i>Wachendorfia thyrsoflora</i> (Bloodroot).	AAY51378.1		Q2TCH1 [T]	
Eukaryota	Polyketide synthase type III isoform 2	2.3.1.-	<i>Wachendorfia thyrsoflora</i> (Bloodroot).	AAW50922.1		Q3L5A7 [T]	
Eukaryota	Type III polyketide synthase 2		<i>Musa acuminata</i> AAA Group.	ADE59486.1		D5KZJ9 [T]	
Eukaryota	Curcumin synthase		<i>Curcuma longa</i> (Turmeric) (<i>Curcuma domestica</i>).	BAH56226.1		C0SVZ6 [T]	
Eukaryota	Curcumin synthase		<i>Curcuma longa</i> (Turmeric) (<i>Curcuma domestica</i>).	BAH85781.1		C6L7V9 [T]	
Eukaryota	Chalcone synthase		<i>Zingiber officinale</i> (Ginger) (<i>Amomum zingiber</i>).	ABF20067.1		A5GZV8 [T]	

Eukaryota	Curcumin synthase		Curcuma longa (Turmeric) (Curcuma domestica).	BAH85780.1		C6L7V8 [T]
Eukaryota	Type III polyketide synthase 1		Musa acuminata AAA Group.	ADE59485.1		D5KZJ8 [T]
Eukaryota	Chalcone synthase-like protein		Lunularia cruciata.	ABF67971.1		Q19MQ4
Eukaryota	Stilbenecarboxylate synthase 1		Marchantia polymorpha (Liverwort).	AAW30009.1		Q5I6Y2
Eukaryota	Chalcone synthase-like		Marchantia paleacea var. diptera.	BAD42328.1		Q68BL6 [T]
Eukaryota	Chalcone synthase-like		Marchantia paleacea var. diptera.	BAD42329.1		Q68BL5
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ79305.1	XP_001756020.1	A9RPL0
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ50371.1	XP_001784819.1	A9U1T2
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ57316.1	XP_001777888.1	A9TGY4
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ75430.1	XP_001759926.1	A9S0L4
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ53708.1, EDQ53739.1, EDQ54185.1	XP_001781001.1, XP_001781433.1, XP_001781464.1	A9TQV2
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ51735.1, EDQ51744.1	XP_001783444.1, XP_001783453.1	A9TXW3
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ49827.1	XP_001785366.1	A9U3C9
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ49824.1, EDQ49829.1, EDQ83741.1	XP_001751424.1, XP_001785363.1, XP_001785368.1	A9RAS0

		2.3.1.74					
Eukaryota	Chalcone synthase		Physcomitrella patens (Moss).	ABB84527.1		Q2VAZ3 [T]	
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ49525.1, EDQ50363.1	XP_001784853.1, XP_001785666.1	A9U1W8	
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ78673.1	XP_001756277.1	A9RQT8	
Eukaryota	hypothetical protein		Selaginella moellendorffii	EFJ37435.1	XP_002962175.1		
Eukaryota	hypothetical protein		Selaginella moellendorffii	EFJ33924.1	XP_002965086.1		
Eukaryota	Stilbenecarboxylate synthase 2		Marchantia polymorpha (Liverwort).	AAW30010.1		Q5I6Y1 [P]	2POU
Eukaryota	Stilbenecarboxylate synthase 2		Marchantia polymorpha (Liverwort).	AAW30010.1		Q5I6Y1 [P]	2POU
Eukaryota	Chalcone synthase-like polyketide synthase		Huperzia serrata.	ABI94386.1		A3E7Z7 [T]	
Eukaryota	hypothetical protein		Selaginella moellendorffii	EFJ21767.1	XP_002977158.1		
Eukaryota	hypothetical protein		Selaginella moellendorffii	EFJ34147.1	XP_002965309.1		
Eukaryota	Biphenyl synthase 3	2.3.1.117	Sorbus aucuparia (European mountain ash) (Rowan).	ACW82505.1		D2DRC5 [T]	
Eukaryota	Biphenyl synthase 2	2.3.1.177	Sorbus aucuparia (European mountain ash) (Rowan).	ACW82504.1		D2DRC4 [T]	
Eukaryota	Biphenyl synthase		Sorbus aucuparia (European mountain ash) (Rowan).	ABB89212.1		Q27Z07 [T]	
Eukaryota	Olivetol synthase		Cannabis sativa (Hemp) (Marijuana).	BAG14339.1		B1Q2B6 [T]	

Eukaryota	CAN383		Cannabis sativa (Hemp) (Marijuana).	ACT10338.1		C6KI62 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Humulus lupulus (European hop).	ACM17225.1		B9VI86 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Humulus lupulus (European hop).	BAB47194.1, BAB47195.1		Q93V86 [T]	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69658.1		B3GEB6	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69657.1		B3GEB5	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69655.1, ACD69659.1		B3GEB3	
Eukaryota	Valerophenone synthase	2.3.1.74	Humulus lupulus (European hop).	ACM17227.1		B9VI88 [T]	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69650.1		B3GEA8	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69653.1		B3GEB1	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69652.1		B3GEB0	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69656.1		B3GEB4	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69648.1		B3GEA6	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69654.1		B3GEB2	
Eukaryota	Valerophenone synthase		Humulus lupulus (European hop).	ACD69649.1		B3GEA7	

Eukaryota	Valerophenone synthase		<i>Humulus lupulus</i> (European hop).	ACD69651.1		B3GEA9
Eukaryota	3-methyl-1-(trihydroxyphenyl)butan-1-one synthase	2.3.1.156	<i>Humulus lupulus</i> (European hop).	BAA29039.1, BAB12102.1		O80400 [T], O80400.1
Eukaryota	Chalcone synthase	2.3.1.74	<i>Humulus lupulus</i> (European hop).	BAB47196.1		Q94LW8
Eukaryota	CHS-like protein		<i>Humulus lupulus</i> (European hop).	CAD23044.1		Q8LPD8
Eukaryota	Chalcone synthase	2.3.1.74	<i>Humulus lupulus</i> (European hop).	ACM17226.1		B9VI87 [T]
Eukaryota	Type III polyketide synthase 4		<i>Musa acuminata</i> AAA Group.	ADE59488.1		D5KZK1 [T]
Eukaryota	Type III polyketide synthase 5		<i>Musa acuminata</i> AAA Group.	ADE59489.1		D5KZK2 [T]
Eukaryota	Diketide CoA synthase		<i>Curcuma longa</i> (Turmeric) (<i>Curcuma domestica</i>).	BAH56225.1		C0SVZ5 [T]
Eukaryota	Diketide-CoA synthase		<i>Curcuma longa</i> (Turmeric) (<i>Curcuma domestica</i>).	BAI50014.1		D0W034 [T]
Eukaryota	Putative uncharacterized protein		<i>Vitis vinifera</i> (Grape).	CAN76172.1		A5AY43
Eukaryota	Putative uncharacterized protein		<i>Vitis vinifera</i> (Grape).	CAN81964.1		A5C9N3
Eukaryota	Putative uncharacterized protein		<i>Vitis vinifera</i> (Grape).	CAN73761.1		A5AT85
Eukaryota	PREDICTED: hypothetical protein		<i>Vitis vinifera</i>		XP_002269451.1	
Eukaryota	PREDICTED: hypothetical protein		<i>Vitis vinifera</i>		XP_002265991.1	

Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN78680.1		A5B621	
Eukaryota	Type III polyketide synthase		Drosophyllum lusitanicum (Portuguese sundew).	ABQ59603.1		B0L804 [T]	
Eukaryota	Chalcone synthase-like protein	2.3.1.74	Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEE73513.1	XP_002333197.1	B9ND63	
Eukaryota	Putative chalcone synthase		Antirrhinum majus (Garden snapdragon).	BAE80511.1		Q2ABY3 [T]	
Eukaryota	Chalcone synthase superfamily protein		Psilotum nudum (Whisk fern) (Lycopodium nudum).	BAA92742.1		Q9MB03 [T]	
Eukaryota	Chalcone synthase		Psilotum nudum (Whisk fern) (Lycopodium nudum).	BAA87922.1		Q9SLY0 [T]	
Eukaryota	Acridone synthase II	2.3.1.159	Ruta graveolens (Common rue).	CAC14058.1		Q9FSC0 [P], Q9FSC0.1	
Eukaryota	Acridone synthase III	2.3.1.159	Ruta graveolens (Common rue).	CAC14056.2		Q9FSC2 [T], Q9FSC2.1	
Eukaryota	Acridone synthase IV	2.3.1.159	Ruta graveolens (Common rue).	CAC14057.1		Q9FSC1 [T], Q9FSC1.1	
Eukaryota	Type III polyketide synthase		Polygonum cuspidatum (Japanese knotweed).	ABY47640.1, ABY47641.1		A9YWN4 [T]	
Eukaryota	Benzalacetone synthase		Rheum palmatum.	AAK82824.1		Q94FV7 [P]	3A5Q, 3A5R, 3A5S
Eukaryota	Stilbene synthase	2.3.1.95	Rheum tataricum.	AAP13782.1		Q84Q58 [T]	
Eukaryota	Resveratrol synthase		Polygonum cuspidatum (Japanese knotweed).	ABI78940.1		D2CFU4 [T]	
Eukaryota	STS		Polygonum cuspidatum (Japanese knotweed).	ACC76753.1		B2MWQ8 [T]	

Eukaryota	Resveratrol-forming stilbene synthase		<i>Polygonum cuspidatum</i> (Japanese knotweed).	ABS82270.1		B6RBJ7 [T]	
Eukaryota	Chalcone synthase		<i>Gerbera hybrida</i> .	CAA62682.1		Q39923	
Eukaryota	Chalcone synthase		<i>Gerbera hybrida</i> .	CAP20329.1		B7ZF47 [T]	
Eukaryota	G2ps1	2.3.1.-	<i>Gerbera hybrida</i> .	CAA86219.2		P48391 [P], P48391.2	1EE0, 1QLV
Eukaryota	Chalcone synthase		<i>Gerbera hybrida</i> .	CAP20330.1		B7ZF48 [T]	
Eukaryota	Chalcone synthase		<i>Gerbera hybrida</i> .	CAA62683.1		Q39788	
Eukaryota	Naregenin-chalcone synthase	2.3.1.74	<i>Persea americana</i> (Avocado).	AAC98143.1		Q9ZU06 [T], Q9ZU06.1	
Eukaryota	Naringenin-chalcone synthase G	2.3.1.74	<i>Petunia hybrida</i> (Petunia).	CAA32735.1		P22927 [T], P22927.2	
Eukaryota	p-coumaroyltriacyclic acid synthase		<i>Equisetum hyemale</i> (Dutch rush) (Scouring-rush horsetail).	ACQ91099.1		D2D3P0 [T]	
Eukaryota	Stilbene synthase		<i>Bauhinia variegata</i> (Purple orchid tree).	ABF59517.1		Q1G0Y3 [T]	
Eukaryota	Trihydroxystilbene synthase	2.3.1.95	<i>Arachis hypogaea</i> (Peanut).	AAO11837.1		Q8GUS2 [T]	
Eukaryota	Resveratrol synthase	2.3.1.95	<i>Arachis hypogaea</i> (Peanut).	AAF71254.1		Q9M5L3	
Eukaryota	Resveratrol synthase 3	2.3.1.95	<i>Arachis hypogaea</i> (Peanut).	AAF71253.1		Q9M5L4	
Eukaryota	Resveratrol synthase 3		<i>Arachis hypogaea</i> (Peanut).	AAZ32262.1		Q45L50 [T]	

Eukaryota	Trihydroxystilbene synthase 1	2.3.1.95	Arachis hypogaea (Peanut).	CAA00091.1, CAA44184.1, CAA44185.1		P20178 [T], P20178.1	
Eukaryota	Stilbene synthase		Arachis hypogaea (Peanut).	ADJ17764.1, BAA78617.1		Q9SLV5 [P]	1Z1E, 1Z1F
Eukaryota	Stilbene synthase		Arachis hypogaea (Peanut).	ADJ17764.1, BAA78617.1		Q9SLV5 [P]	1Z1E, 1Z1F
Eukaryota	Resveratrol synthase		Arachis hypogaea (Peanut).	ABY86219.1		BOLX54	
Eukaryota	Trihydroxystilbene synthase 2	2.3.1.95	Arachis hypogaea (Peanut).	CAA44186.1		P20077, P20077.1	
Eukaryota	Trihydroxystilbene synthase 2	2.3.1.95	Arachis hypogaea (Peanut).	CAA44186.1		P20077, P20077.1	
Eukaryota	Trihydroxystilbene synthase 3	2.3.1.95	Arachis hypogaea (Peanut).	AAA96434.1		P51069 [T], P51069.1	
Eukaryota	Stilbene synthase	2.3.1.95	Arachis hypogaea (Peanut).	AAX32891.1, ABR10844.1		Q2VT95 [T]	
Eukaryota	resveratrol synthase		Arachis hypogaea	ADJ17766.1			
Eukaryota	resveratrol synthase		Arachis hypogaea	ADJ17767.1			
Eukaryota	resveratrol synthase		Arachis hypogaea	ADJ17765.1			
Eukaryota	resveratrol synthase		Arachis hypogaea	ADJ17768.1			
Eukaryota	Stilbenecarboxylate synthase	2.3.1.-	Hydrangea macrophylla (Bignoniaceae).	AAN76182.1		Q8GZP4 [T]	
Eukaryota	Coumaroyl triacetic acid synthase		Hydrangea macrophylla (Bignoniaceae).	BAA32733.1		O82145 [T]	

		2.3.1.-				
Eukaryota	Stilbenecarboxylate synthase		Hydrangea macrophylla (Bingleaf hydrangea).	AAN76183.1		Q8GZP3
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002264455.1	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31796.3		D7TMS3
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN64419.1		A5CBN6
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31795.3		D7TMS2
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN68597.1		A5C3F5
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN61105.1		A5B8I0
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002271371.1	
Eukaryota	PREDICTED: hypothetical protein, partial		Vitis vinifera		XP_002272129.1	
Eukaryota	Stilbene synthase		Vitis pseudoreticulata.	ABF06881.1		Q1KTA7 [T]
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN72347.1		A5BHV2
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002278299.1	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31809.3		D7TMT6
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31804.3		D7TMT1

Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31800.3		D7TMS7	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002264989.1		
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN69969.1		A5BBF2	
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN68070.1		A5BLU6	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31801.3		D7TMS8	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31806.3		D7TMT3	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002265378.1		
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002268676.1, XP_002272695.1		
Eukaryota	Stilbene synthase		Vitis pseudoreticulata.	ABF06885.1		Q1KTA3 [T]	
Eukaryota	Stilbene synthase		Vitis pseudoreticulata.	ABF06883.1		Q1KTA5 [T]	
Eukaryota	Trihydroxystilbene synthase 4	2.3.1.95	Vitis vinifera (Grape).	CAN82080.1	XP_002269293.1	A5AEM3, A5AEM3.1	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31805.3		D7TMT2	
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN62494.1		A5AHW2	
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN72348.1		A5BHV3	

Eukaryota	PREDICTED: hypothetical protein, partial		Vitis vinifera		XP_002265652.1	
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN62671.1		A5APC2
Eukaryota	Stilbene synthase 3		Vitis sp. cv. 'Norton'.	AAL23576.1		Q93YX5
Eukaryota	Stilbene synthase		Parthenocissus henryana.	AAM21771.1		Q8LPP4 [T]
Eukaryota	Stilbene synthase		Parthenocissus quinquefolia (Virginia creeper).	AAM21773.1		Q8LPP2 [T]
Eukaryota	Stilbene synthase		Cissus rhombifolia (Grape ivy).	AAM21772.1		Q8LPP3 [T]
Eukaryota	Stilbene synthase 2		Vitis rotundifolia (Muscadine grape).	ABL09496.1		A1E5L9
Eukaryota	Stilbene synthase		Vitis vinifera (Grape).	ABD64686.1		A3QRB9 [T]
Eukaryota	Stilbene synthase 2		Vitis vinifera (Grape).	ABJ97072.1		A0FDZ9
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN69608.1		A5B2F6
Eukaryota	Stilbene synthase 2		Vitis pseudoreticulata.	ACO59913.1		C1KH63
Eukaryota	Stilbene synthase		Vitis quinquangularis.	ABM30194.1		A1Z1Q0 [T]
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002263807.1	
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN82569.1		A5ATB0

Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002264035.1	
Eukaryota	Stilbene synthase		Vitis vinifera (Grape).	ABJ97068.1		A0FDZ5
Eukaryota	Stilbene synthase 2		Vitis sp. cv. 'Norton'.	AAL09047.1		Q944W7
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002263722.1	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002263881.1	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002265229.1	
Eukaryota	Stilbene synthase 1		Vitis pseudoreticulata.	ACO59912.1		C1KH62
Eukaryota	Stilbene synthase		Vitis quinquangularis.	ABM30193.1		A1Z1P9 [T]
Eukaryota	Stilbene synthase 2		Vitis vinifera (Grape).	ACO59459.1		C1KKJ9
Eukaryota	PSV368	2.3.1.95	Vitis vinifera (Grape).			P51071 [T], P51071.1
Eukaryota	Stilbene synthase		Vitis vinifera (Grape).	ABV82966.1		A8I4W6 [T]
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002278483.1	
Eukaryota	Stilbene synthase		Vitis pseudoreticulata.	ABF06884.1		Q1KTA4 [T]
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN61161.1		A5BAS8

Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN81926.1		A5C7S2	
Eukaryota	Stilbene synthase		Vitis pseudoreticulata.	ABF06882.1		Q1KTA6 [T]	
Eukaryota	Stilbene synthase 1		Vitis vinifera (Grape).	ABJ97071.1		A0FDZ8	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31811.3	XP_002278385.1	D7TMT8	
Eukaryota	Stilbene synthase		Vitis rotundifolia (Muscadine grape).	ABK96920.1		A1DZF2	
Eukaryota	Stilbene synthase		Vitis vinifera (Grape).	ABD64685.1		A3QRB8 [T]	
Eukaryota	Stilbene synthase		Vitis pseudoreticulata.	ABF06886.1		Q1KTA2 [T]	
Eukaryota	PSV21	2.3.1.95	Vitis vinifera (Grape).	AAB19887.2, CAA54221.1, CAN68069.1, CAN69968.1	XP_002265332.1, XP_002268842.1	P51070 [T], P51070.2	
Eukaryota	Resveratrol synthase		Vitis vinifera (Grape).	ABC84859.1		Q2HY10 [T]	
Eukaryota	Stilbene synthase		Vitis riparia (Frost grape) (Vitis vulpina).	AAF00586.1		Q9SPW2	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002265148.1		
Eukaryota	Stilbene synthase 1		Vitis vinifera (Grape).	ACO59456.1		C1KKJ6	
Eukaryota	Resveratrol synthase		Vitis vinifera (Grape).	ABE68894.1, ABE68895.1		Q1PA47 [T]	

Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN74316.1		A5B9E3	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x	2.3.1.95	Vitis vinifera (Grape).	CAN77746.1, CBI31810.3	XP_002278354.1	A5C9M2, A5C9M2.1, D7TMT7	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002268756.1, XP_002269386.1		
Eukaryota	Stilbene synthase 1		Vitis vinifera (Grape).	ACO59458.1		C1KKJ8	
Eukaryota	Stilbene synthase 2		Vitis vinifera (Grape).	ACO59457.1		C1KKJ7	
Eukaryota	Stilbene synthase	2.3.1.95	Vitis amurensis.	ACS34990.1		C6K7X5 [T]	
Eukaryota	Stilbene synthase 1		Vitis sp. cv. 'Norton'.	AAL09046.1		Q944W8	
Eukaryota	Resveratrol synthase		Vitis vinifera (Grape).	AAK69395.1		Q94G58 [T]	
Eukaryota	Stilbene synthase		Vitis labrusca.	BAB20979.1		Q9FEK7	
Eukaryota	Stilbene synthase		Vitis riparia (Frost grape) (Vitis vulpina).	BAB20978.1		Q9FRW2	
Eukaryota	Resveratrol synthase		Vitis rotundifolia (Muscadine grape).	ACM47246.1		B9VS72 [T]	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002262654.1		
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_100.assembly12x		Vitis vinifera (Grape).	CBI31790.3		D7TMR7	
Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN76086.1		A5AVC4	

Eukaryota	Trihydroxystilbene synthase 6	2.3.1.95	Vitis vinifera (Grape).	ABM67587.1	XP_002262944.1	A2ICC6 [T], A2ICC6.1	
Eukaryota	PSV25	2.3.1.95	Vitis vinifera (Grape).	ABC84860.1, BAB20980.1, CAN60215.1	XP_002263962.1	P28343 [P], P28343.2	
Eukaryota	Resveratrol synthase	2.3.1.95	Vitis vinifera (Grape).	ACN81821.1		COLUU8 [T]	
Eukaryota	Naringenin-chalcone synthase F	2.3.1.74	Petunia hybrida (Petunia).	CAA32734.1		P22926 [T], P22926.2	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Equisetum arvense (Field horsetail) (Common horsetail).	BAA89501.1		Q9MBB1 [T], Q9MBB1.1	
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABR17893.1		B8LQG3 [T]	
Eukaryota	Stilbene synthase 1	2.3.1.-	Pinus strobus (Eastern white pine).	CAA87012.1		P48407 [P], P48407.1	
Eukaryota	Stilbene synthase 2	2.3.1.-	Pinus strobus (Eastern white pine).	CAA87013.1		P48408 [T], P48408.1	
Eukaryota	Pinosylvin synthase	2.3.1.146	Pinus densiflora (Japanese red pine).	BAA89667.1		Q9MBB0 [T]	
Eukaryota	Pinosylvin-forming stilbene synthase	2.3.1.-	Pinus sylvestris (Scots pine).	AAA50524.1, AAA50525.1, AAB24341.2, CAA43165.1		Q02323 [P], Q02323.1	1U0U, 1XES, 1XET
Eukaryota	Pinosylvin synthase		Pinus densiflora (Japanese red pine).	BAA94593.1		Q9MBF1 [T]	
Eukaryota	Pinosylvin-forming stilbene synthase		Pinus massoniana.	ABG91049.1		Q0Q4L4 [T]	
Eukaryota	Pinosylvin-forming stilbene synthase		Pinus massoniana.	ABG91050.1		Q0Q4L3	

Eukaryota	Naringenin-chalcone synthase		Elaeis oleifera (Oil palm).	ABS76146.1		A7LP06 [T]
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Hordeum vulgare (Barley).	CAA70435.1		Q96562 [T], Q96562.1
Eukaryota	Naringenin-chalcone synthase D	2.3.1.74	Petunia hybrida (Petunia).	CAA32733.1		P22925, P22925.2
Eukaryota	Chalcone synthase	2.3.1.74	Petunia hybrida (Petunia).	CAA32736.1		Q43041
Eukaryota	Putative chalcone synthase		Oryza sativa subsp. japonica (Rice).	BAC20662.1, BAF21101.1, EAZ03224.1	NP_001059187.1	A2YJG3, Q8H4L3
Eukaryota	Chalcone synthase		Lupinus luteus (European yellow lupin).	ABF59869.1		Q1G1M1
Eukaryota	Putative uncharacterized protein Sb07g004700		Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAL49965.1, EES14634.1	XP_002445139.1	Q8VWQ7 [T]
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK24577.1		A9NVB6 [T]
Eukaryota	Chalcone synthase		Ginkgo biloba (Ginkgo).	AAY52458.1		Q4TVM8 [T]
Eukaryota	Chalcone synthase		Ginkgo biloba (Ginkgo).	AAY16976.1		A4D0J7
Eukaryota	Chalcone synthase-like protein	2.3.1.74	Pinus strobus (Eastern white pine).	CAA05214.1		O65873 [T]
Eukaryota	Chalcone synthase		Ginkgo biloba (Ginkgo).	AAS21057.1, AAT68477.1, ABZ04126.1		Q6RIB2 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Pinus strobus (Eastern white pine).	CAA06077.1		O65872 [T], O65872.1
Eukaryota	Pinocembrin chalcone synthase		Pinus densiflora (Japanese red pine).	BAA94594.1		Q9MBF0 [T]

Eukaryota	Chalcone synthase		Pinus pinaster (Maritime pine).	AAN87169.1		Q8GUU5 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Pinus pinaster (Maritime pine).	CAP09644.1		A8E1V8	
Eukaryota	Chalcone synthase		Pinus pinaster (Maritime pine).	AAP85249.1		Q7XJC5 [T]	
Eukaryota	Chalcone synthase		Pinus pinaster (Maritime pine).	AAN87170.1		Q8GUU4 [T]	
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK27123.1		A9P2L2 [T]	
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK24675.1		A9NVL4 [T]	
Eukaryota	Chalcone synthase		Picea abies (Norway spruce) (Picea excelsa).	ABD24228.1		Q2ENC0	
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK25158.1		A9NWZ7 [T]	
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK23800.1		A9NT39 [T]	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24244.1		Q2ENA3	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38611.1, ABD38614.1, ABD38616.1		Q2EFI2	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24253.1		Q2EN94	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24231.1		Q2ENB6	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38607.1, ABD38612.1		Q2EFI4	

Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38609.1, ABD38615.1		Q2EF11	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24232.1, ABD24242.1, ABD24254.1		Q2ENA5	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38606.1		Q2EFJ0	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24229.1, ABD24237.1, ABD38601.1, ABD38605.1		Q2ENB0	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24245.1, ABD24246.1, ABD24250.1, ABD24252.1, ABD38592.1		Q2ENA1	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24247.1, ABD38594.1		Q2EFK2	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38599.1		Q2EFJ7	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24239.1		Q2ENA8	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Pinus sylvestris (Scots pine).	CAA43166.1		P30079, P30079.1	
Eukaryota	Chalcone synthase		Pseudotsuga menziesii (Douglas-fir).	ABD24227.1		Q2ENC1	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24236.1		Q2ENB1	
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK25266.1		A9NXA5 [T]	
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38598.1		Q2EFJ8	

Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24249.1, ABD24255.1		Q2EN92
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24233.1		Q2ENB4
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38610.1		Q2EF16
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24235.1		Q2ENB2
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24234.1		Q2ENB3
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK23777.1, ABK25228.1		A9NT16 [T]
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK25340.1		A9NXH9 [T]
Eukaryota	Putative uncharacterized protein		Picea sitchensis (Sitka spruce).	ABK24876.1		A9NW65 [T]
Eukaryota	Naregenin-chalcone synthase 7	2.3.1.74	Picea mariana (Black spruce).	AAF35890.1		Q9M5M0 [T], Q9M5M0.1
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD38604.1		Q2EFJ2
Eukaryota	Chalcone synthase		Abies alba (Edeltanne) (European silver fir).	ABD24230.1, ABD24238.1, ABD24240.1, ABD24241.1, ABD24243.1, ABD24248.1, ABD38597.1, ABD38600.1, ABD38602.1, ABD38603.1, ABD38608.1, ABD38613.1		Q2ENA9 [T]

Eukaryota	Chalcone synthase		<i>Abies alba</i> (Edeltanne) (European silver fir).	ABD38596.1		Q2EFK0
Eukaryota	Chalcone synthase		<i>Abies alba</i> (Edeltanne) (European silver fir).	ABD38595.1		Q2EFK1
Eukaryota	Chalcone synthase		<i>Abies alba</i> (Edeltanne) (European silver fir).	ABD24251.1, ABD38593.1		Q2EFK3
Eukaryota	Putative uncharacterized protein		<i>Picea sitchensis</i> (Sitka spruce).	ABK21072.1		A9NKB1 [T]
Eukaryota	Putative uncharacterized protein		<i>Picea sitchensis</i> (Sitka spruce).	ABR16506.1		B8LLH6 [T]
Eukaryota	Putative uncharacterized protein		<i>Picea sitchensis</i> (Sitka spruce).	ABK25177.1		A9NX16 [T]
Eukaryota	Putative uncharacterized protein		<i>Picea sitchensis</i> (Sitka spruce).	ABR16308.1, ABR16692.1, ABR18409.1, ACN40699.1, ACN40839.1		B8LKX8 [T]
Eukaryota	Putative chalcone synthase A		<i>Allium cepa</i> (Onion).	AAO63020.1		Q84TM4 [T]
Eukaryota	Chalcone synthase B		<i>Allium cepa</i> (Onion).	AAO63021.1		Q84TM3 [T]
Eukaryota	Chalcone synthase		<i>Iris hollandica</i> (Dutch iris).	BAF99252.1		A9ZTK6 [T]
Eukaryota	Chalcone synthase		<i>Iris hollandica</i> (Dutch iris).	BAF99253.1		A9ZTK7 [T]
Eukaryota	Chalcone synthase		<i>Iris hollandica</i> (Dutch iris).	BAE80115.1		Q2ABX7 [T]
Eukaryota	Chalcone synthase		<i>Oncidium Gower Ramsey</i> .	ABS58499.1		A7KT13 [T]

Eukaryota	Chalcone synthetase		<i>Stellaria longipes</i> (Longstalk starwort).	AAM18138.1		Q8S2T6 [T]
Eukaryota	Chalcone synthase		<i>Gypsophila paniculata</i> .	AAP74755.1		Q7XYS4 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Dianthus caryophyllus</i> (Carnation) (Clove pink).	CAA91923.1		P48389 [T], P48389.1
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Dianthus monspessulanus</i> .	AAF81743.1		Q9LKP7 [T], Q9LKP7.1
Eukaryota	Chalcone synthase 1		<i>Rheum palmatum</i> .	ABB13607.1		A8CLG3 [T]
Eukaryota	CHS2		<i>Polygonum cuspidatum</i> (Japanese knotweed).	ACC76754.1		B2MWQ9 [T]
Eukaryota	Chalcone synthase	2.3.1.74	<i>Fagopyrum esculentum</i> (Common buckwheat) (<i>Fagopyrum vulgare</i>).	ACZ51476.1		D1MJ11 [T]
Eukaryota	Chalcone synthase	2.3.1.74	<i>Fagopyrum dibotrys</i> .	ACZ48699.1		D1MIB1
Eukaryota	Chalcone synthase		<i>Fagopyrum tataricum</i> (Tartarian buckwheat) (<i>Polygonum tataricum</i>).	ADH03587.1		D7R4L1
Eukaryota	Chalcone synthase	2.3.1.74	<i>Fagopyrum tataricum</i> (Tartarian buckwheat) (<i>Polygonum tataricum</i>).	ACZ51475.1, ADL39795.1		D1MJ10
Eukaryota	Chalcone synthase		<i>Fagopyrum tataricum</i> (Tartarian buckwheat) (<i>Polygonum tataricum</i>).	ACH70135.1		D7EZN4 [T]
Eukaryota	Chalcone synthase 2		<i>Rheum palmatum</i> .	ABB13608.1		A8CLH4 [T]
Eukaryota	Chalcone synthase		<i>Polygonum cuspidatum</i> (Japanese knotweed).	ABK92281.2		A1E025
Eukaryota	Chalcone synthase		<i>Polygonum cuspidatum</i> (Japanese knotweed).	ABK92282.2		A1E0A0 [T]

Eukaryota	Chalcone synthase	2.3.1.74	Phalaenopsis hybrid cultivar.	AAY83389.1		Q45XN8
Eukaryota	Naringenin-chalcone synthase 8	2.3.1.74	Bromheadia finlaysoniana (Orchid).	AAB62876.1		O23731 [T], O23731.1
Eukaryota	Naringenin-chalcone synthase 4	2.3.1.74	Bromheadia finlaysoniana (Orchid).	AAB62875.1		O23730 [T], O23730.1
Eukaryota	Naringenin-chalcone synthase 3	2.3.1.74	Bromheadia finlaysoniana (Orchid).	AAB62874.1		O23729 [T], O23729.1
Eukaryota	Chalcone synthase		Dendrobium nobile.	ABE77392.2		Q1KPV3 [T]
Eukaryota	Chalcone synthase		Dendrobium sp. RW-2006-1.	CAL15003.1		Q0VTQ6 [T]
Eukaryota	Chalcone synthase		Dendrobium hybrid cultivar.	CAR64527.1, CAR64528.1		B5MBV4 [T]
Eukaryota	Chalcone synthase enzyme		Dendrobium hybrid cultivar.	CAM32716.1		A2RQ47 [T]
Eukaryota	Chalcone synthase		Dendrobium hybrid cultivar.	AAU93767.1		Q5XQ44 [T]
Eukaryota	Naringenin-chalcone synthase 9	2.3.1.74	Daucus carota (Carrot).	BAA03785.1		Q9SB26 [T], Q9SB26.1
Eukaryota	Chalcone synthase	2.3.1.74	Daucus carota (Carrot).	BAA03784.1		Q9SB27
Eukaryota	DcCHS1	2.3.1.74	Daucus carota (Carrot).	CAA07244.1		Q9ZS41 [T], Q9ZS41.1
Eukaryota	Chalcone synthase		Brassica oleracea (Wild cabbage).	AAO73441.1		Q84V00 [T]
Eukaryota	Chalcone synthase		Aethionema grandiflora (Persian stone-cress).	AAF23557.1		Q9SEP5

Eukaryota	Chalcone synthase		<i>Arabis brassica</i> (Rock-cress) (<i>Arabis pauciflora</i>).	AAF23577.1		Q9SENO	
Eukaryota	Chalcone synthase		<i>Microthlaspi perfoliatum</i> (Claspleaf penny-cress) (<i>Thlaspi perfoliatum</i>).	AAG43354.1		Q9FR71	
Eukaryota	Chalcone synthase		<i>Alliaria petiolata</i> (Garlic mustard).	AAG43355.1		Q9FR70	
Eukaryota	Chalcone synthase		<i>Ionopsidium abulense</i> (Mountain penny-cress) (<i>Thlaspi montanum</i>).	AAG43360.1		Q9FR65	
Eukaryota	Chalcone synthase		<i>Cardamine rivularis</i> .	AAG43357.1		Q9FR68	
Eukaryota	Chalcone synthase		<i>Cochlearia danica</i> (Danish scurvygrass).	AAG43350.1		Q9FR75	
Eukaryota	Chalcone synthase		<i>Arabis turrita</i> (Tower rock-cress).	AAF23582.1		Q9SEM7	
Eukaryota	Chalcone synthase		<i>Baimashania pulvinata</i> .	ABE03655.1		Q06YW1	
Eukaryota	Chalcone synthase		<i>Arabis procurrens</i> (Running rock-cress).	AAF23580.1		Q9SEM9	
Eukaryota	Chalcone synthase		<i>Arabis blepharophylla</i> (Coast rock-cress).	AAF23562.1		Q9SEP1	
Eukaryota	Chalcone synthase		<i>Arabis hirsuta</i> (Hairy rock-cress).	AAF23571.1		Q9SEN4	
Eukaryota	Chalcone synthase		<i>Arabis soyeri</i> subsp. <i>subcoriacea</i> .	AAF23572.1		Q9SEN3	
Eukaryota	Chalcone synthase		<i>Arabis hirsuta</i> (Hairy rock-cress).	AAT96383.1		Q64HU8	
Eukaryota	Chalcone synthase		<i>Aubrieta deltoidea</i> .	AAG43406.1		Q9FR58	

Eukaryota	Chalcone synthase		Aubrieta deltoidea.	AAF23584.1		Q9SEM5
Eukaryota	Chalcone synthase		Thlaspi arvense (Field penny-cress).	AAG43353.1		Q9FR72
Eukaryota	Chalcone synthase		Thellungiella sp. SJ-2009.	ACN41950.1		C0KXY8
Eukaryota	Chalcone synthase		Thellungiella sp. SJ-2009.	ACN41947.1		C0KXY5
Eukaryota	Chalcone synthase		Thellungiella sp. SJ-2009.	ACN41946.1		C0KXY4
Eukaryota	Chalcone synthase		Thellungiella sp. SJ-2009.	ACN41949.1		C0KXY7
Eukaryota	Chalcone synthase		Thellungiella sp. SJ-2009.	ACN41948.1		C0KXY6
Eukaryota	Chalcone synthase		Lesquerella fendleri (Fendler's bladderpod).	ACN41940.1		C0KXX8
Eukaryota	Chalcone synthase		Lesquerella fendleri (Fendler's bladderpod).	ACN41941.1		C0KXX9
Eukaryota	Chalcone synthase 4 protein		Brassica rapa (Turnip).	ADF43045.1		D5LQ18 [T]
Eukaryota	Chalcone synthase		Parrya nudicaulis.	ABE03657.2		Q06YV9
Eukaryota	Chalcone synthase		Brassica juncea var. napiformis.	ADB45306.1		D2XQ38 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Raphanus sativus (Radish).	AAB87072.1		O22652 [T], O22652.1
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Sinapis alba (White mustard) (Brassica hirta).	CAA32496.1, CAA34460.1		P13416 [T], P13416.1

Eukaryota	Naringenin-chalcone synthase 3	2.3.1.74	<i>Sinapis alba</i> (White mustard) (<i>Brassica hirta</i>).	CAA32495.1	P13417 [T], P13417.1
Eukaryota	Chalcone synthase A2		<i>Brassica napus</i> (Rape).	AAC31912.1	O81477 [T]
Eukaryota	Chalcone synthase		<i>Sisymbrium irio</i> (London rocket).	AAG43359.1	Q9FR66
Eukaryota	Chalcone synthase		<i>Raphanus sativus</i> (Radish).	ABQ95967.1	B1N7K5 [T]
Eukaryota	Chalcone synthase		<i>Brassica rapa</i> subsp. <i>chinensis</i> (Pak-choi).	ABQ28695.1	B1N7F0 [T]
Eukaryota	Chalcone synthase A1		<i>Brassica napus</i> (Rape).	AAC31911.1	O81476 [T]
Eukaryota	Chalcone synthase		<i>Orychophragmus violaceus</i> (Chinese violet cress) (<i>Brassica violacea</i>).	ABQ95961.1	B1N7J9 [T]
Eukaryota	Chalcone synthase		<i>Brassica rapa</i> var. <i>parachinensis</i> .	ABQ95962.1	B1N7K0 [T]
Eukaryota	Chalcone synthase		<i>Brassica oleracea</i> var. <i>capitata</i> (Cabbage).	ABQ95964.1	B1N7K2 [T]
Eukaryota	Chalcone synthase		<i>Brassica juncea</i> (Indian mustard) (<i>Sinapis juncea</i>).	ABQ95960.1, ABQ95969.1	B1N7J8 [T], B1N7K7 [T]
Eukaryota	Chalcone synthase		<i>Brassica rapa</i> (Turnip).	ABO21005.1, ABQ95959.1, ABQ95966.1	A9P3A7 [T], B1N7J7 [T], B1N7K4 [T]
Eukaryota	Chalcone synthase		<i>Brassica napus</i> (Rape).	ABG76200.1	D2CFP6 [T]
Eukaryota	Chalcone synthase B1		<i>Brassica napus</i> (Rape).	AAC31913.1	O81478 [T]

Eukaryota	Chalcone synthase B2		<i>Brassica napus</i> (Rape).	AAC31914.1		O81479 [T]
Eukaryota	Chalcone synthase		<i>Cardamine trifolia</i> .	ABF68858.1		Q1G6U4
Eukaryota	Chalcone synthase		<i>Cardamine flexuosa</i> (Wavy bitter-cress) (<i>Cardamine sylvatica</i>).	AAT96398.1		Q64HK5
Eukaryota	Chalcone synthase		<i>Cardamine parviflora</i> .	ABF68893.1		Q1G6Q9
Eukaryota	Chalcone synthase		<i>Cardamine pratensis</i> (Cuckoo flower) (Alpine bitter-cress).	AAG43358.1		Q9FR67
Eukaryota	Chalcone synthase		<i>Leiospora exscapa</i> .	ABE03667.1		Q06YU9
Eukaryota	Chalcone synthase		<i>Leiospora pamirica</i> .	ABE03659.1		Q06YV7
Eukaryota	Chalcone synthase		<i>Matthiola incana</i> (Common stock).	CAD20740.1		Q8H0Q0
Eukaryota	Chalcone synthase	2.3.1.74	<i>Matthiola incana</i> (Common stock).	CAA35600.1, CAD20739.1		P17818 [T], P17818.1, Q546H7
Eukaryota	Chalcone synthase		<i>Solms-laubachia jafrii</i> .	ABE03665.1		Q06YV1
Eukaryota	Chalcone synthase		<i>Solms-laubachia</i> sp. JY-2006-1.	ABE03662.1		Q06YV4
Eukaryota	Chalcone synthase		<i>Solms-laubachia linearifolia</i> .	ABE03653.1		Q06YW3
Eukaryota	Chalcone synthase		<i>Christolea crassifolia</i> .	ABE03660.1		Q06YV6

Eukaryota	Chalcone synthase		Solms-laubachia xerophyta.	ABE03663.1		Q06YV3	
Eukaryota	Chalcone synthase		Solms-laubachia minor.	ABE03661.1		Q06YV5	
Eukaryota	Chalcone synthase		Solms-laubachia retropilosa.	ABE03652.1		Q06YW4	
Eukaryota	Chalcone synthase		Solms-laubachia sp. JY-2006-2.	ABE03664.1		Q06YV2	
Eukaryota	Chalcone synthase		Solms-laubachia pulcherrima.	ABE03651.1		Q06YW5	
Eukaryota	Chalcone synthase		Solms-laubachia stewartii.	ABE03669.1		Q06YU7	
Eukaryota	Chalcone synthase		Solms-laubachia platycarpa.	ABE03649.1		Q06YW7	
Eukaryota	Chalcone synthase		Solms-laubachia zhongdianensis.	ABE03654.1		Q06YW2	
Eukaryota	Chalcone synthase		Solms-laubachia eurycarpa.	ABE03647.1, ABE03668.1		Q06YU8	
Eukaryota	Chalcone synthase		Solms-laubachia himalayensis.	ABE03670.1		Q06YU6	
Eukaryota	Chalcone synthase		Solms-laubachia lanata.	ABE03650.1		Q06YW6	
Eukaryota	Chalcone synthase		Solms-laubachia xerophyta.	ABE03648.1		Q06YW8	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Arabis alpina (Alpine rock-cress).	AAF23558.1		Q9SEP4, Q9SEP4.1	
Eukaryota	Chalcone synthase		Arabis alpina (Alpine rock-cress).	AAF23559.1		Q9SEP3	

Eukaryota	Chalcone synthase		Lepidium campestre (Field pepperwort) (Thlaspi campestre).	AAG43352.1		Q9FR73	
Eukaryota	Chalcone synthase		Lepidium apetalum (Pepperweed) (Lepidium micranthum).	ACN41943.1		C0KXY1	
Eukaryota	Chalcone synthase		Lepidium apetalum (Pepperweed) (Lepidium micranthum).	ACN41945.1		C0KXY3	
Eukaryota	Chalcone synthase		Lepidium apetalum (Pepperweed) (Lepidium micranthum).	ACN41944.1		C0KXY2	
Eukaryota	Chalcone synthase		Lepidium apetalum (Pepperweed) (Lepidium micranthum).	ACN41942.1		C0KXY0	
Eukaryota	Chalcone synthase		Stenopetalum velutinum.	ADE18853.1		D5IC06	
Eukaryota	Chalcone synthase		Arabidella eremigena.	ADE18833.1		D5IBY6	
Eukaryota	Chalcone synthase		Stenopetalum velutinum.	ADE18852.1		D5IC05	
Eukaryota	Chalcone synthase		Stenopetalum nutans.	ADE18846.1		D5IBZ9	
Eukaryota	Chalcone synthase		Ballantinia antipoda.	ADE18838.1		D5IBZ1	
Eukaryota	Chalcone synthase		Ballantinia antipoda.	ADE18840.1		D5IBZ3	
Eukaryota	Chalcone synthase		Erysimum handel-mazzettii.	ABE03666.1		Q06YV0	
Eukaryota	Chalcone synthase		Stenopetalum velutinum.	ADE18850.1		D5IC03	
Eukaryota	Chalcone synthase		Stenopetalum nutans.	ADE18847.1		D5IC00	

Eukaryota	Chalcone synthase		<i>Stenopetalum velutinum</i> .	ADE18849.1		D5IC02	
Eukaryota	Chalcone synthase		<i>Stenopetalum nutans</i> .	ADE18842.1, ADE18843.1, ADE18844.1, ADE18845.1, ADE18848.1		D5IBZ5	
Eukaryota	Chalcone synthase		<i>Arabidella eremigena</i> .	ADE18834.1		D5IBY7	
Eukaryota	Chalcone synthase		<i>Boechea drummondii</i> (Rock-cress) (<i>Arabis drummondii</i>).	AAT96385.1		Q64HU6	
Eukaryota	Chalcone synthase		<i>Arabidella eremigena</i> .	ADE18835.1		D5IBY8	
Eukaryota	Chalcone synthase		<i>Arabidella eremigena</i> .	ADE18832.1		D5IBY5	
Eukaryota	Chalcone synthase		<i>Pachycladon latisiliquum</i> .	ACN41930.1		C0KXW8	
Eukaryota	Chalcone synthase		<i>Pachycladon ensyii</i> .	ACN41938.1		C0KXX6	
Eukaryota	Chalcone synthase		<i>Pachycladon novaezelandiae</i> .	ACN41932.1		C0KXX0	
Eukaryota	Chalcone synthase		<i>Pachycladon exile</i> .	ACN41926.1		C0KXW4	
Eukaryota	Chalcone synthase		<i>Pachycladon cheesemani</i> .	ACN41928.1		C0KXW6	
Eukaryota	Chalcone synthase		<i>Pachycladon wallii</i> .	ACN41936.1		C0KXX4	
Eukaryota	Chalcone synthase		<i>Pachycladon fastigiatum</i> .	ACN41924.1		C0KXW2	

Eukaryota	Chalcone synthase		<i>Capsella rubella</i> .	AAF23581.1		Q9SEM8	
Eukaryota	Chalcone synthase		<i>Crucihimalaya himalaica</i> (Rock-cress) (<i>Arabidopsis brevicaulis</i>).	AAT96387.1		Q64HU4	
Eukaryota	Chalcone synthase		<i>Crucihimalaya himalaica</i> (Rock-cress) (<i>Arabidopsis brevicaulis</i>).	AAG43349.1		Q9FR76	
Eukaryota	Chalcone synthase		<i>Crucihimalaya mollissima</i> .	ACN41917.1		C0KXV5	
Eukaryota	Chalcone synthase		<i>Ballantinia antipoda</i> .	ADE18839.1		D5IBZ2	
Eukaryota	Chalcone synthase		<i>Ballantinia antipoda</i> .	ADE18837.1		D5IBZ0	
Eukaryota	Chalcone synthase		<i>Ballantinia antipoda</i> .	ADE18841.1		D5IBZ4	
Eukaryota	Chalcone synthase		<i>Capsella bursa-pastoris</i> (Shepherd's purse).	AAT96386.1		Q64HU5	
Eukaryota	Chalcone synthase		<i>Halimolobos perplexus</i> var. <i>perplexus</i> .	AAF23569.1		Q9SBS8	
Eukaryota	Chalcone synthase		<i>Boechera drummondii</i> (Rock-cress) (<i>Arabis drummondii</i>).	AAF23564.1		Q9SEN9	
Eukaryota	Chalcone synthase		<i>Olimarabidopsis pumila</i> (Dwarf rocket) (<i>Arabidopsis pumila</i>).	AAF23567.1		Q9SEN7	
Eukaryota	Chalcone synthase		<i>Crucihimalaya mollissima</i> .	ACN41919.1		C0KXV7	
Eukaryota	Chalcone synthase		<i>Crucihimalaya bursifolia</i> .	ACN41923.1		C0KXW1	
Eukaryota	Chalcone synthase		<i>Crucihimalaya mollissima</i> .	ACN41918.1		C0KXV6	

Eukaryota	Chalcone synthase		Crucihimalaya bursifolia.	ACN41920.1, ACN41921.1, ACN41922.1		C0KXV8	
Eukaryota	Chalcone synthase		Olimarabidopsis pumila (Dwarf rocket) (Arabidopsis pumila).	AAT96384.1		Q64HU7	
Eukaryota	Chalcone synthase		Olimarabidopsis pumila (Dwarf rocket) (Arabidopsis pumila).	AAF23568.1		Q9SEN6	
Eukaryota	Chalcone synthase		Arabidopsis korshinskyi (Rock-cress) (Olimarabidopsis cabulica).	AAG43351.1		Q9FR74	
Eukaryota	Chalcone synthase		Boechera drummondii (Rock-cress) (Arabis drummondii).	AAF23563.1		Q9SEP0	
Eukaryota	Chalcone synthase		Arabis lignifera (Desert rock-cress) (Boechera lignifera).	AAF23573.1		Q9SEN2	
Eukaryota	Chalcone synthase		Boechera fendleri.	AAF23565.1		Q7G045	
Eukaryota	Chalcone synthase		Arabis holboellii (Holboell's rockcross) (Boechera holboellii).	ACN41916.1		C0KXV4	
Eukaryota	Chalcone synthase		Arabis holboellii (Holboell's rockcross) (Boechera holboellii).	ACN41912.1, ACN41913.1, ACN41914.1, ACN41915.1		C0KXV0	
Eukaryota	Chalcone synthase		Stenopetalum velutinum.	ADE18851.1		D5IC04	
Eukaryota	Chalcone synthase		Arabis glabra (Tower rockcross).	AAF23566.1		Q9SEN8	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23758.1		Q460Q1 [T]	

Eukaryota	Protein TRANSPARENT TESTA 4	2.3.1.74	Arabidopsis thaliana (Mouse-ear cress).	AAB35812.1, AAF23561.1, AAK73272.1, AAL06937.1, AAL25571.1, AAL91279.1, AAM65314.1, AAN18165.1, AAZ23726.1, AAZ23728.1, AAZ23729.1, AAZ23730.1, AAZ23732.1, AAZ23733.1, AAZ23734.1, AAZ23735.1, AAZ23736.1, AAZ23738.1, AAZ23739.1, AAZ23740.1, AAZ23742.1, AAZ23743.1, AAZ23744.1, AAZ23745.1, AAZ23748.1, AAZ23749.1, AAZ23750.1, AAZ23751.1, AAZ23752.1,	NP_196897.1	P13114 [P], P13114.1, Q460R0 [T]
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23756.1		Q460Q3 [T]

				CAF04429.1, CAF04430.1, CAF04431.1, CAF04433.1, CAF04434.1, CAI30400.1, CAI30401.1, CAI30402.1, CAI30403.1, CAI30404.1, CAI30405.1, CAI30406.1, CAI30407.1, CAI30408.1, CAI30409.1, CAI30410.1, CAI30411.1, CAI30412.1, CAI30413.1, CAI30414.1, CAI30415.1, CAI30416.1, CAI30417.1, CAI30418.1			
Eukaryota	Chalcone synthase	2.3.1.74	<i>Arabidopsis thaliana</i> (Mouse-ear cress).			Q705N9	
Eukaryota	Chalcone synthase		<i>Arabidopsis thaliana</i> (Mouse-ear cress).	CAF04432.1		Q705N7	
Eukaryota	Mutant protein of chalcone synthase		<i>Arabidopsis thaliana</i> (Mouse-ear cress).	BAD89854.1		Q5FBU9	
Eukaryota	Chalcone synthase family protein		<i>Arabidopsis thaliana</i> (Mouse-ear cress).	AAZ23741.1		Q460R8 [T]	
Eukaryota	Chalcone synthase family protein		<i>Arabidopsis thaliana</i> (Mouse-ear cress).	AAZ23747.1		Q460R2 [T]	
Eukaryota	Chalcone synthase family protein		<i>Arabidopsis thaliana</i> (Mouse-ear cress).	AAZ23727.1		Q460T2 [T]	
Eukaryota	Chalcone synthase family protein		<i>Arabidopsis thaliana</i> (Mouse-ear cress).	AAZ23746.1		Q460R3 [T]	

Eukaryota	Mutant protein of chalcone synthase		Arabidopsis thaliana (Mouse-ear cress).	BAD89858.1		Q5FBU5	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23737.1		Q460S2 [T]	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23731.1		Q460S8 [T]	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23755.1		Q460Q4 [T]	
Eukaryota	Mutant protein of chalcone synthase		Arabidopsis thaliana (Mouse-ear cress).	BAD89857.1		Q5FBU6	
Eukaryota	Chalcone synthase	2.3.1.74	Arabidopsis thaliana (Mouse-ear cress).	CAI30399.1		Q5QPX9	
Eukaryota	Chalcone synthase		Arabidopsis thaliana (Mouse-ear cress).	AAT96388.1		Q64HU3	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23767.1		Q460P2 [T]	
Eukaryota	Chalcone synthase		Arabidopsis lyrata subsp. petraea (Northern rock-cress) (Cardaminopsis petraea).	AAF23579.1		Q9SBU7	
Eukaryota	Chalcone synthase		Arabidopsis lyrata subsp. petraea (Northern rock-cress) (Cardaminopsis petraea).	CAF04415.1		Q705Q4	
Eukaryota	Chalcone synthase		Arabidopsis lyrata subsp. lyrata.	CAF04408.1, CAF04410.1, CAF04411.1, CAF04412.1, CAF04413.1, CAF04414.1, CAF04416.1, CAF04417.1, CAF04460.1, CAF04461.1		Q705Q6, Q705Q9	

Eukaryota	Chalcone synthase		<i>Arabidopsis lyrata</i> subsp. <i>lyrata</i> .	ABA62610.1		Q0H703	
Eukaryota	Chalcone synthase		<i>Arabidopsis lyrata</i> subsp. <i>lyrata</i> .	AAF23575.1, EFH47850.1	XP_002871591.1	Q9SEN1	
Eukaryota	Chalcone synthase		<i>Arabidopsis lyrata</i> (Lyre-leaved rock-cress).	AAT96381.1		Q64HV0	
Eukaryota	Chalcone synthase		<i>Arabidopsis lyrata</i> subsp. <i>petraea</i> (Northern rock-cress) (<i>Cardaminopsis petraea</i>).	ACX51028.1, ACX51029.1, ACX51030.1, ACX51031.1		D0E301, D0E303	
Eukaryota	Chalcone synthase		<i>Arabidopsis croatica</i> .	CAI30817.1		Q5NDK6	
Eukaryota	Chalcone synthase		<i>Arabidopsis lyrata</i> subsp. <i>petraea</i> (Northern rock-cress) (<i>Cardaminopsis petraea</i>).	AAF23578.1		Q9SBU8	
Eukaryota	Chalcone synthase		<i>Cardaminopsis arenosa</i> (Sand rock-cress) (<i>Arabidopsis arenosa</i>).	AAT96382.1		Q64HU9	
Eukaryota	Chalcone synthase family protein		<i>Arabis gemmifera</i> .	AAZ23761.1		Q460P8 [T]	
Eukaryota	Chalcone synthase family protein		<i>Arabis gemmifera</i> .	AAZ23763.1		Q460P6 [T]	
Eukaryota	Chalcone synthase		<i>Arabidopsis kamchatica</i> subsp. <i>kawasakiana</i> .	ACX51012.1		D0E2Y5	
Eukaryota	Chalcone synthase family protein		<i>Arabis gemmifera</i> .	AAZ23762.1		Q460P7 [T]	
Eukaryota	Chalcone synthase		<i>Arabidopsis kamchatica</i> subsp. <i>kamchatica</i> .	ACX51013.1		D0E2Y6	
Eukaryota	Chalcone synthase		<i>Arabidopsis kamchatica</i> subsp. <i>kamchatica</i> .	ACX51016.1		D0E2Y9	

Eukaryota	Chalcone synthase		Arabidopsis kamchatica.	ABA62606.1		Q0H707	
Eukaryota	Chalcone synthase		Arabidopsis halleri.	CAF04418.1, CAF04419.1, CAF04420.1, CAF04421.1, CAF04422.1, CAF04423.1, CAF04424.1, CAF04425.1, CAF04426.1, CAF04427.1, CAF04428.1		Q705Q0	
Eukaryota	Chalcone synthase		Arabidopsis halleri.	AAF23570.1		Q9SEN5	
Eukaryota	Chalcone synthase		Arabidopsis pedemontana.	ACV97166.1		C9DD59	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23760.1		Q460P9 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23766.1		Q460P3 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23759.1		Q460Q0 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23771.1		Q460N8 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23765.1		Q460P4 [T]	
Eukaryota	Chalcone synthase		Arabis gemmifera.	CAI30816.1		Q5NDK7	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23769.1		Q460P0 [T]	

Eukaryota	Chalcone synthase family protein		<i>Arabis gemmifera</i> .	AAZ23764.1, AAZ23768.1, AAZ23770.1, AAZ23772.1		Q460P1 [T]	
Eukaryota	Chalcone synthase		<i>Arabidopsis kamchatica</i> subsp. <i>kawasakiana</i> .	ACX51011.1, ACX51014.1, ACX51015.1, ACX51017.1, ACX51018.1, ACX51019.1, ACX51020.1, ACX51021.1, ACX51022.1, ACX51023.1, ACX51024.1, ACX51025.1, ACX51026.1, ACX51027.1		DOE2Y4, DOE2Z2	
Eukaryota	Chalcone synthase		<i>Arabis gemmifera</i> .	ABA62605.1		Q0H708	
Eukaryota	Chalcone synthase		<i>Cardamine asarifolia</i> .	ABF68903.1		Q1G6P9	
Eukaryota	Chalcone synthase		<i>Cardamine asarifolia</i> .	ABF68907.1, ABF68908.1		Q1G6P4	
Eukaryota	Chalcone synthase		<i>Cardamine hirsuta</i> (Hairy bitter-cress).	ABF68894.1, ABF68895.1		Q1G6Q7	
Eukaryota	Chalcone synthase		<i>Cardamine hirsuta</i> (Hairy bitter-cress).	ABF68896.1		Q1G6Q6	
Eukaryota	Chalcone synthase		<i>Cardamine x ferrarii</i> .	ABF68924.1, ABF68926.1		Q1G6M6	
Eukaryota	Chalcone synthase		<i>Cardamine x ferrarii</i> .	ABF68928.1		Q1G6M4	
Eukaryota	Chalcone synthase		<i>Cardamine x ferrarii</i> .	ABF68925.1		Q1G6M7	

Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68897.1, ABF68898.1, ABF68904.1, ABF68905.1, ABF68906.1		Q1G6P6	
Eukaryota	Chalcone synthase		Cardamine x ferrarii.	ABF68927.1		Q1G6M5	
Eukaryota	Chalcone synthase		Cardamine apennina.	ABF68865.1		Q1G6T7	
Eukaryota	Chalcone synthase		Cardamine castellana.	ABF68861.1		Q1G6U1	
Eukaryota	Chalcone synthase		Cardamine matthioli.	ABF68864.1		Q1G6T8	
Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68913.1		Q1G6N9	
Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68910.1, ABF68911.1		Q1G6P1	
Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68901.1		Q1G6Q1	
Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68899.1, ABF68902.1		Q1G6Q0	
Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68900.1		Q1G6Q2	
Eukaryota	Chalcone synthase		Cardamine pratensis (Cuckoo flower) (Alpine bitter-cress).	ABF68874.1		Q1G6S8	
Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68909.1		Q1G6P3	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Cardamine amara (Large bitter-cress).	AAF23560.1		Q9SEP2, Q9SEP2.1	

Eukaryota	Chalcone synthase		Cardamine amara subsp. balcanica.	ABF68866.1, ABF68875.1, ABF68876.1, ABF68886.1, ABF68888.1, ABF68889.1	Q1G6R3, Q1G6S6, Q1G6S7, Q1G6T6	
Eukaryota	Chalcone synthase		Cardamine acris.	ABF68859.1, ABF68872.1	Q1G6T0	
Eukaryota	Chalcone synthase		Cardamine asarifolia.	ABF68916.1	Q1G6N6	
Eukaryota	Chalcone synthase		Cardamine amara subsp. amara.	ABF68883.1, ABF68884.1, ABF68885.1, ABF68887.1, ABF68890.1, ABF68891.1	Q1G6R1	
Eukaryota	Chalcone synthase		Cardamine penzesii.	AAG43356.1	Q9FR69	
Eukaryota	Chalcone synthase		Cardamine uliginosa.	ABF68860.1	Q1G6U2	
Eukaryota	Chalcone synthase 1 protein		Brassica rapa (Turnip).	ADF43042.1	D5LQ15	
Eukaryota	Chalcone synthase		Cardamine pectinata.	ABF68880.1	Q1G6S2	
Eukaryota	Chalcone synthase		Cardamine impatiens.	ABF68871.1	Q1G6T1	
Eukaryota	Chalcone synthase		Cardamine graeca.	ABF68879.1	Q1G6S3	
Eukaryota	Chalcone synthase		Cardamine graeca.	ACJ68467.1, ACJ68468.1, ACJ68469.1	B7TRA7	
Eukaryota	Chalcone synthase		Cardamine carnosa.	ACJ68475.1, ACJ68476.1	B7TRB5	

Eukaryota	Chalcone synthase		Pachycladon latisiliquum.	ACN41931.1		C0KXW9	
Eukaryota	Chalcone synthase		Pachycladon fastigiatum.	ACN41925.1		C0KXW3	
Eukaryota	Chalcone synthase		Pachycladon novaezelandiae.	ACN41933.1		C0KXX1	
Eukaryota	Chalcone synthase		Pachycladon exile.	ACN41927.1		C0KXW5	
Eukaryota	Chalcone synthase		Pachycladon wallii.	ACN41937.1		C0KXX5	
Eukaryota	Chalcone synthase		Pachycladon cheesemanii.	ACN41929.1		C0KXW7	
Eukaryota	Chalcone synthase		Barbarea vulgaris (Yellow rocket).	AAF23583.1		Q9SEM6	
Eukaryota	Chalcone synthase		Barbarea vulgaris (Yellow rocket).	ABF68892.1		Q1G6R0	
Eukaryota	Chalcone synthase		Cardamine sp. JK-2008m.	ACJ68507.1		B7TRE7	
Eukaryota	Chalcone synthase		Cardamine maritima.	ACJ68493.1		B7TRD3	
Eukaryota	Chalcone synthase		Cardamine sp. JK-2008a.	ACJ68499.1		B7TRD9	
Eukaryota	Chalcone synthase		Cardamine serbica.	ACJ68485.1		B7TRC5	
Eukaryota	Chalcone synthase		Cardamine fialae.	ACJ68463.1, ACJ68464.1, ACJ68465.1, ACJ68466.1		B7TRA3	

Eukaryota	Chalcone synthase		Cardamine fialae.	ABF68878.1		Q1G6S4	
Eukaryota	Chalcone synthase		Cardamine maritima.	ABF68856.1		Q1G6U6	
Eukaryota	Chalcone synthase		Cardamine monteluccii.	ACJ68482.1, ACJ68483.1, ACJ68484.1		B7TRC2	
Eukaryota	Chalcone synthase		Rorippa amphibia (Great yellow-cress) (Nasturtium amphibium).	AAG43348.1		Q9FR77	
Eukaryota	Chalcone synthase		Cardamine rupestris.	ABF68867.1		Q1G6T5	
Eukaryota	Chalcone synthase		Cardamine sp. JK-2008m.	ACJ68461.1, ACJ68462.1, ACJ68490.1, ACJ68498.1, ACJ68502.1, ACJ68503.1, ACJ68504.1, ACJ68505.1, ACJ68506.1		B7TRA1, B7TRD8, B7TRE2	
Eukaryota	Chalcone synthase		Cardamine resedifolia.	ACJ68470.1		B7TRB0	
Eukaryota	Chalcone synthase		Cardamine glauca.	ABF68868.1		Q1G6T4	
Eukaryota	Chalcone synthase		Cardamine alpina.	ABF68855.1		Q1G6U7	
Eukaryota	Chalcone synthase		Cardamine resedifolia.	ACJ68471.1, ACJ68472.1, ACJ68474.1		B7TRB1	
Eukaryota	Chalcone synthase		Cardamine plumieri.	ACJ68449.1, ACJ68450.1, ACJ68453.1, ACJ68454.1, ACJ68458.1, ACJ68459.1		B7TR89	

Eukaryota	Chalcone synthase		Cardamine plumieri.	ACJ68451.1, ACJ68452.1, ACJ68455.1, ACJ68456.1, ACJ68457.1, ACJ68460.1		B7TR91	
Eukaryota	Chalcone synthase		Triticum aestivum (Wheat).	AAQ19320.1		Q6WGQ1	
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Secale cereale (Rye).	CAA63306.1		P53414, P53414.1	
Eukaryota	Chalcone synthase		Triticum aestivum (Wheat).	AAQ19323.1		Q6WGP8 [T]	
Eukaryota	Chalcone synthase		Thinopyrum ponticum.	AAQ19319.1		Q6WGQ2	
Eukaryota	Chalcone synthase		Triticum aestivum (Wheat).	AAQ19321.1, AAQ19322.1		Q6WGP9 [T]	
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Secale cereale (Rye).	CAA63305.1		P53415 [T], P53415.1	
Eukaryota	Chalcone synthase		Triticum aestivum (Wheat).	AAQ19318.1		Q6WGQ3	
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Hordeum vulgare (Barley).	CAA41250.1		P26018, P26018.1	
Eukaryota	Chalcone synthase		Hordeum vulgare (Barley).	ACH42078.1		B5LXZ9 [T]	
Eukaryota	Naregenin-chalcone synthase	2.3.1.74	Oryza sativa subsp. japonica (Rice).	ABA94123.1, BAA19186.2, BAB39764.1, BAF28372.1, EAZ18579.1	NP_001068009.1	Q2R3A1 [T], Q2R3A1.1	
Eukaryota	Naregenin-chalcone synthase	2.3.1.74	Oryza sativa subsp. indica (Rice).	CAA61955.1, EAY81161.1		A2ZEX7 [T], A2ZEX7.1	

Eukaryota	Putative uncharacterized protein Sb05g020220	2.3.1.74	Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAD41879.1, EES09864.1	XP_002450876.1	C5Y3Q2, Q9XGX1, Q9XGX1.1	
Eukaryota	Putative uncharacterized protein Sb05g020200	2.3.1.74	Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAD41873.1, EES09862.1	XP_002450874.1	C5Y3Q0, Q9XGX2, Q9XGX2.1	
Eukaryota	Putative uncharacterized protein Sb05g020210	2.3.1.74	Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAD41875.1, EES09863.1	XP_002450875.1	C5Y3Q1, Q9SBL6, Q9SBL6.1	
Eukaryota	Putative uncharacterized protein Sb05g020160	2.3.1.74	Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAD41876.1, EES09858.1	XP_002450870.1	C5Y3P6, Q9SBL5, Q9SBL5.1	
Eukaryota	Naringenin-chalcone synthase 5	2.3.1.74	Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAD41877.1		Q9SBL4, Q9SBL4.1	
Eukaryota	Putative uncharacterized protein Sb05g020230	2.3.1.74	Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAD41878.1, EES09865.1	XP_002450877.1	C5Y3Q3, Q9SBL3, Q9SBL3.1	
Eukaryota	Putative uncharacterized protein Sb05g020150		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES08604.1	XP_002449616.1	C5Y3P5	
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Sorghum bicolor (Sorghum) (Sorghum vulgare).	AAD41874.1		Q9SBL7, Q9SBL7.1	
Eukaryota	Putative uncharacterized protein Sb05g020190		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EES09859.1, EES09860.1, EES09861.1	XP_002450871.1, XP_002450872.1, XP_002450873.1	C5Y3P7	
Eukaryota	White pollen	2.3.1.74	Zea mays (Maize).	CAA42763.1		P24824, P24824.1	
Eukaryota	Chalcone synthase		Zea mays (Maize).	ACG33857.1	NP_001149022.1	B6T9S4 [T]	
Eukaryota	Putative uncharacterized protein		Zea mays (Maize).	ACF87981.1		B4G0T8 [T]	
Eukaryota	Chalcone synthase C2-Idf-III		Zea mays (Maize).	AAW56963.1		Q4QWZ5	
Eukaryota	Putative uncharacterized protein		Zea mays (Maize).	ACN31816.1		C0PCC1 [T]	

Eukaryota	Putative uncharacterized protein	2.3.1.74	Zea mays (Maize).	AAW56961.1, AAW56962.1, AAW56964.1, ACN26676.1, CAA42764.1	NP_001142246.1	P24825, P24825.1, Q4QWZ6 [T]
Eukaryota	Chalcone synthase		Lilium hybrid division VII.	AAD49354.1		Q9SBS4 [T]
Eukaryota	Type III polyketide synthase 3		Musa acuminata AAA Group.	ADE59487.1		D5KZK0 [T]
Eukaryota	Chalcone synthase	2.3.1.74	Lilium hybrid division I.	BAB40787.2		Q9AVC0 [T]
Eukaryota	Chalcone synthase		Lilium hybrid cultivar.	ABF82595.1		Q19S38
Eukaryota	Chalcone synthase		Lilium hybrid division VII.	AAD49355.1		Q9SBS3 [T]
Eukaryota	Chalcone synthase		Lilium hybrid cultivar.	ACX31605.1		D0EFL8 [T]
Eukaryota	Chalcone synthase		Tricyrtis hirta (Toad lily) (Tricyrtis japonica).	BAH16615.1		B9A9B4 [T]
Eukaryota	Chalcone synthase	2.3.1.74	Lilium hybrid division I.	BAB40786.2		Q9AVC1 [T]
Eukaryota	Chalcone synthase		Lilium hybrid division VII.	AAD49353.1		Q9SBS5 [T]
Eukaryota	Chalcon synthase		Lilium speciosum.	BAE79201.1		Q2L6K4 [T]
Eukaryota	Chalcone synthase		Anthurium andraeanum (Flamingo lily).	ABE01413.1		Q1W9N0

Eukaryota	Putative chalcone synthase		<i>Anthurium andraeanum</i> (Flamingo lily).	AAP20864.1		Q84L24 [T]
Eukaryota	Chalcone synthase		<i>Scutellaria baicalensis</i> (Baical skullcap).	AAB88208.1		O48564 [T]
Eukaryota	Chalcone synthase		<i>Scutellaria baicalensis</i> (Baical skullcap).	BAB03471.1		Q9LRB2 [T]
Eukaryota	Chalcone synthase		<i>Scutellaria baicalensis</i> (Baical skullcap).	BAA23373.1		O22122 [T]
Eukaryota	Chalcone synthase		<i>Scutellaria baicalensis</i> (Baical skullcap).	ABS83551.1		B2BH31 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Chrysosplenium americanum</i> (Golden saxifrage).	AAB54075.1		O04220 [T], O04220.1
Eukaryota	Chalcone synthase		<i>Siraitia grosvenorii</i> (Monk's fruit) (Luo han guo).	ADF57184.1		D6PV09 [T]
Eukaryota	Naringenin-chalcone synthase 3	2.3.1.74	<i>Gerbera hybrida</i> .	CAA86220.1		P48392 [T], P48392.1
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	<i>Gerbera hybrida</i> .	CAA86218.1		P48390 [T], P48390.1
Eukaryota	Chalcone synthase		<i>Ageratina adenophora</i> .	ACQ84148.2		C4PB35 [T]
Eukaryota	Chalcone synthase		<i>Rudbeckia hirta</i> (Black-eyed Susan).	ABN79673.1		A8QKF1 [T]
Eukaryota	Chalcone synthase		<i>Chrysanthemum morifolium</i> (Florist's daisy) (<i>Dendranthema grandiflorum</i>).	ABF69124.1		Q19LA8 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Callistephus chinensis</i> (China aster).	CAA91930.1		P48385 [T], P48385.2

				ABW89080.1, ABW89081.1, ABW89082.1, ABW89083.1, ABW89084.1, ABW89085.1, ABW89086.1, ABW89087.1, ABW89088.1, ABW89089.1, ABW89090.1, ABW89091.1, ABW89092.1, ABW89093.1, ABW89094.1, ABW89095.1, ABW89096.1, ABW89097.1, ABW89098.1			
Eukaryota	Chalcone synthase		Helianthus annuus (Common sunflower).			B5KUB7	
Eukaryota	Chalcone synthase		Helianthus annuus (Common sunflower).	ABG35635.1, ABG35636.1		Q15D75	
Eukaryota	Chalcone synthase		Helianthus annuus (Common sunflower).	ABG35615.1, ABG35616.1		Q15D95	
Eukaryota	Chalcone synthase		Helianthus annuus (Common sunflower).	ABG35623.1, ABG35624.1		Q15D87	
Eukaryota	Chalcone synthase		Helianthus annuus (Common sunflower).	ABG35639.1, ABG35640.1		Q15D71	

Eukaryota	Chalcone synthase		Helianthus annuus (Common sunflower).	ABG35631.1, ABG35632.1		Q15D79	
				ABG35612.1, ABG35613.1, ABG35614.1, ABG35617.1, ABG35618.1, ABG35619.1, ABG35620.1, ABG35621.1, ABG35622.1, ABG35625.1, ABG35626.1, ABG35627.1, ABG35628.1, ABG35629.1, ABG35630.1, ABG35633.1, ABG35634.1, ABG35637.1, ABG35638.1, ABG35641.1, ABG35642.1, ABG35643.1, ABG35644.1, ABG35645.1, ABG35646.1, ABG35647.1, ABG35648.1, ABG35649.1, ABG35650.1,			
Eukaryota	Chalcone synthase		Helianthus annuus (Common sunflower).			Q15D37	
Eukaryota	Chalcone synthase		Gerbera hybrida.	CAP20328.1		B7ZF46 [T]	
Eukaryota	Chalcone synthase		Saussurea medusa (Saw-wort).	ABC71308.1		A1XEV4 [T]	
Eukaryota	Chalcone synthase		Iris germanica (Flag) (Fleur-de-lis).	BAE53636.1		Q2WFX2 [T]	

Eukaryota	Chalcone synthase		Aquilaria sinensis.	ABM73434.1		A2I5G2 [T]
Eukaryota	Chalcone synthase, putative	2.3.1.74	Ricinus communis (Castor bean).	EEF44265.1	XP_002518132.1	B9RWL3
Eukaryota	DcCHS2	2.3.1.74	Daucus carota (Carrot).	CAA07245.1		Q9ZS40 [T], Q9ZS40.1
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Petroselinum crispum (Parsley) (Petroselinum hortense).	CAA24779.1		P16107, P16107.1
Eukaryota	Chalcone synthase		Garcinia mangostana.	ACM62742.1		B9UZ48 [T]
Eukaryota	Chalcone synthase		Hydrangea macrophylla (Bigleaf hydrangea).	AAN76184.1		Q8GU00
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Hydrangea macrophylla (Bigleaf hydrangea).	BAA32732.1		O82144 [T], O82144.1
Eukaryota	Chalcone synthase		Arachis hypogaea (Peanut).	AAO32821.1, ABZ80827.1		Q84XA8 [T]
Eukaryota	Chalcone synthase		Arachis hypogaea (Peanut).	AAU43217.1		Q5XVS6
Eukaryota	Chalcone synthase, putative	2.3.1.74	Ricinus communis (Castor bean).	EEF49320.1	XP_002512817.1	B9RGV8
Eukaryota	Chalcone synthase		Litchi chinensis (Lychee).	ADB44077.1		D2Y0Z1
Eukaryota	Chalcone synthase		Litchi chinensis (Lychee).	ADB44076.1		D2Y0Z0 [T]
Eukaryota	Naringenin-chalcone synthase 3	2.3.1.74	Ruta graveolens (Common rue).	CAC14061.2		Q9FSB7 [T], Q9FSB7.1
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Ruta graveolens (Common rue).	CAC14060.1		Q9FSB8 [T], Q9FSB8.1

Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	<i>Ruta graveolens</i> (Common rue).	CAC14059.1		Q9FSB9 [T], Q9FSB9.1
Eukaryota	Chalcone synthase		<i>Dictamnus albus</i> (Gas plant).	CAH61575.1		Q5WM49 [T]
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	<i>Citrus sinensis</i> (Sweet orange).	BAA81664.1		Q9XJ57 [T], Q9XJ57.1
Eukaryota	Chalcone synthase		<i>Citrus unshiu</i> (Satsuma mandarin) (<i>Citrus nobilis</i> var. <i>unshiu</i>).	ACQ41890.1		C3VPJ0 [T]
Eukaryota	Chalcone synthase		<i>Citrus sinensis</i> (Sweet orange).	ACB47461.1		C7S7A4
Eukaryota	Chalcone synthase	2.3.1.47	<i>Citrus maxima</i> (Pomelo) (<i>Citrus grandis</i>).	ACX37403.1		D0EVE3 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Vigna unguiculata</i> (Cowpea).	CAA52819.1		P51089 [T], P51089.1
Eukaryota	Naringenin-chalcone synthase 17	2.3.1.74	<i>Phaseolus vulgaris</i> (Kidney bean) (French bean).	CAA29700.1		P49440 [T], P49440.1
Eukaryota	Chalcone synthase		<i>Glycine max</i> (Soybean) (<i>Glycine hispida</i>).	ACB37365.1		B2CM86 [T]
Eukaryota	Putative uncharacterized protein		<i>Glycine max</i> (Soybean) (<i>Glycine hispida</i>).	ACU20027.1		C6TDX5 [T]
Eukaryota	Naringenin-chalcone synthase 7	2.3.1.74	<i>Glycine max</i> (Soybean) (<i>Glycine hispida</i>).	AAA33950.1		P30081, P30081.1
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Pueraria lobata</i> (Kudzu vine).	BAA01075.1, BAA09918.1		P23569 [T], P23569.1
Eukaryota	Putative uncharacterized protein		<i>Glycine max</i> (Soybean) (<i>Glycine hispida</i>).	ACU21426.1		C6THX4 [T]
Eukaryota	Chalcone synthase		<i>Glycine max</i> (Soybean) (<i>Glycine hispida</i>).	AAO67373.1		Q84V87

Eukaryota	Chalcone synthase		Glycine soja (Wild soybean).	ACT32034.1		D1FYG0 [T]	
Eukaryota	Chalcone synthase		Glycyrrhiza uralensis.	ABM66532.1		B2KK56 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Glycyrrhiza inflata.	ACH67480.1		C4MJ52 [T]	
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Medicago sativa (Alfalfa).	AAA02824.1		P30074 [P], P30074.1	1B15, 1BQ6, 1CGK, 1CGZ, 1CHW, 1CML, 1D6F, 1D6H, 1D6I, 1I86, 1I88, 1I89, 1I8B, 1JWX, 1UOV, 1UOW
Eukaryota	Chalcone synthase		Robinia pseudoacacia (Black locust).	ACF94720.2		B6S394 [T]	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Onobrychis viciifolia (Common sainfoin).	AAB81987.1		O22586 [T], O22586.1	
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Medicago sativa (Alfalfa).	AAA02823.1		P30073 [T], P30073.1	
Eukaryota	Naregenin-chalcone synthase 6	2.3.1.74	Pisum sativum (Garden pea).	CAA44935.1		Q01288 [T], Q01288.1	
Eukaryota	Naregenin-chalcone synthase 3	2.3.1.74	Pisum sativum (Garden pea).	BAA22043.1		O23883, O23883.1	

Eukaryota	Naregenin-chalcone synthase 4	2.3.1.74	Pisum sativum (Garden pea).	BAA22042.1		O23882, O23882.1
Eukaryota	Naregenin-chalcone synthase 5	2.3.1.74	Pisum sativum (Garden pea).	BAA22044.1		O23884, O23884.1
Eukaryota	Naregenin-chalcone synthase 2	2.3.1.74	Pisum sativum (Garden pea).	BAA01513.1, CAA44934.1		Q01287 [T], Q01287.1
Eukaryota	Naregenin-chalcone synthase 1	2.3.1.74	Pisum sativum (Garden pea).	BAA01512.1, CAA44933.1		Q01286 [T], Q01286.1
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Cicer arietinum (Chickpea) (Garbanzo).	CAA10190.1		Q9SML4 [T], Q9SML4.1
Eukaryota	Chalcone synthase	2.3.1.74	Cicer arietinum (Chickpea) (Garbanzo).	CAA10131.1		Q9ZRV7 [T]
Eukaryota	Chalcone synthase		Astragalus mongholicus (Huang qi) (Astragalus membranaceus var. mongholicus).	AAZ73731.1, CAJ20138.1		Q4A1N4 [T]
Eukaryota	Naringenin-chalcone synthase 4-1	2.3.1.74	Medicago sativa (Alfalfa).	AAB41561.1		P51077 [T], P51077.1
Eukaryota	Naringenin-chalcone synthase 9	2.3.1.74	Medicago sativa (Alfalfa).	AAA02827.1		P30077 [T], P30077.1
Eukaryota	Naringenin-chalcone synthase 8	2.3.1.74	Medicago sativa (Alfalfa).	AAA02826.1		P30076 [T], P30076.1
Eukaryota	Naringenin-chalcone synthase 4-2	2.3.1.74	Medicago sativa (Alfalfa).	AAB41560.1, CAA48226.1		P51078 [T], P51078.1
Eukaryota	Putative uncharacterized protein		Medicago truncatula (Barrel medic).	ACJ85339.1		B7FKQ5 [T]

Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Medicago sativa (Alfalfa).	AAA02824.1		P30074 [P], P30074.1	1B15, 1BQ6, 1CGK, 1CGZ, 1CHW, 1CML, 1D6F, 1D6H, 1D6I, 1I86, 1I88, 1I89, 1I8B, 1JWX, 1U0V, 1U0W
Eukaryota	Putative chalcone synthase		Medicago truncatula (Barrel medic).	CAC20725.1		Q9FEW4 [T]	
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Trifolium subterraneum (Subterranean clover).	AAA18176.1		P51083, P51083.1	
Eukaryota	CHS12-1	2.3.1.74	Medicago sativa (Alfalfa).	AAA02825.1, AAB41559.1		P30075 [T], P30075.2	
Eukaryota	CHS12-1	2.3.1.74	Medicago sativa (Alfalfa).	AAA02825.1, AAB41559.1		P30075 [T], P30075.2	
Eukaryota	Naringenin-chalcone synthase 6	2.3.1.74	Trifolium subterraneum (Subterranean clover).	AAA67701.1		P51088 [T], P51088.1	
Eukaryota	Naringenin-chalcone synthase 5	2.3.1.74	Trifolium subterraneum (Subterranean clover).	AAA73939.1		P51087 [T], P51087.1	
Eukaryota	Naringenin-chalcone synthase 3	2.3.1.74	Trifolium subterraneum (Subterranean clover).	AAA73937.1		P51085 [T], P51085.1	
Eukaryota	Naringenin-chalcone synthase 4	2.3.1.74	Trifolium subterraneum (Subterranean clover).	AAA73938.1		P51086 [T], P51086.1	

Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Trifolium subterraneum (Subterranean clover).	AAA18177.1		P51084, P51084.1
Eukaryota	Chalcone synthase		Lupinus luteus (European yellow lupin).	ABF59866.1		Q1G1M4 [T]
Eukaryota	Chalcone synthase		Lupinus luteus (European yellow lupin).	AAP37052.1		Q7Y1X9 [T]
Eukaryota	Chalcone synthase		Lupinus luteus (European yellow lupin).	ABF59865.1		Q1G1M5 [T]
Eukaryota	Chalcone synthase		Lupinus albus (White lupin).	ABV23279.1		A7Y7F2 [T]
Eukaryota	Chalcone synthase		Lupinus luteus (European yellow lupin).	AAP37051.1		Q7Y1Y0 [T]
Eukaryota	Chalcone synthase		Lupinus luteus (European yellow lupin).	ABF59868.1		Q1G1M2
Eukaryota	Chalcone synthase		Lupinus luteus (European yellow lupin).	ABF59867.1		Q1G1M3
Eukaryota	Root-specific chalcone synthase	2.3.1.74	Senna alata.	AAM00230.1		Q8S4Y8 [T]
Eukaryota	Root-specific chalcone synthase	2.3.1.74	Senna alata.	AAM00232.1		Q8S4Y6 [T]
Eukaryota	Naringenin-chalcone synthase 1A	2.3.1.74	Pisum sativum (Garden pea).	CAA56316.1		P51081, P51081.1
Eukaryota	Chalcone synthase		Clitoria ternatea (Butterfly pea).	BAF49290.1		A4F1Q7 [T]
Eukaryota	Root-specific chalcone synthase	2.3.1.74	Senna alata.	AAM00231.1		Q8S4Y7 [T]
Eukaryota	Chalcone synthase		Robinia pseudoacacia (Black locust).	ACF94721.1		B6S395 [T]

Eukaryota	Chalcone synthase		Senna tora.	ACB78187.1		D3G7Y0 [T]
Eukaryota	Chalcone synthase		Robinia pseudoacacia (Black locust).	ACF94722.1		B6S396 [T]
Eukaryota	Chalcone synthase	2.3.1.74	Pisum sativum (Garden pea).	BAA22045.1		O23885
Eukaryota	Naringenin-chalcone synthase 1B	2.3.1.74	Pisum sativum (Garden pea).	CAA56317.1		P51082, P51082.1
Eukaryota	Chalcone synthase		Robinia pseudoacacia (Black locust).	ACF94724.1		B6S398 [T]
Eukaryota	Naringenin-chalcone synthase 6	2.3.1.74	Glycine max (Soybean) (Glycine hispida).	AAA33951.1		P30080, P30080.1
Eukaryota	Chalcone synthase 9		Glycine max (Soybean) (Glycine hispida).	ABQ63059.1		B3F5J6
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Glycine max (Soybean) (Glycine hispida).	CAA36317.1, CAA46590.1		P17957, P17957.1
Eukaryota	Chalcone synthase CHS4		Glycine max (Soybean) (Glycine hispida).	AAQ62588.1, AAQ62595.1		Q6X0N0
Eukaryota	Chalcone synthase 1		Glycine max (Soybean) (Glycine hispida).	ABB30178.1		Q306X5 [T]
Eukaryota	Chalcone synthase CHS1	2.3.1.74	Glycine max (Soybean) (Glycine hispida).	AAQ62590.1, AAQ62597.1, BAB71954.1, BAF62128.1, BAH70473.1, BAH70474.1, CAA38456.1		P24826, P24826.1, Q6X0M8
Eukaryota	Naringenin-chalcone synthase 5	2.3.1.74	Glycine max (Soybean) (Glycine hispida).	AAB01004.1		P48406, P48406.1

Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Glycine max (Soybean) (<i>Glycine hispida</i>).	CAA36317.1, CAA46590.1		P17957, P17957.1	
Eukaryota	Naringenin-chalcone synthase 3	2.3.1.74	Glycine max (Soybean) (<i>Glycine hispida</i>).	CAA37909.1		P19168, P19168.1	
Eukaryota	Chalcone synthase CHS3	2.3.1.74	Glycine max (Soybean) (<i>Glycine hispida</i>).	AAQ62589.1, AAQ62596.1, ACN81822.1		Q6X0M9 [T]	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Betula verrucosa</i> (White birch) (<i>Betula pendula</i>).	CAA54649.1, CAA71904.1		P51075 [T], P51075.2	
Eukaryota	Putative uncharacterized protein		<i>Populus trichocarpa</i> (Western balsam poplar) (<i>Populus balsamifera</i> subsp. <i>trichocarpa</i>).	ABD24226.1, ABK95168.1, EEE99396.1	XP_002321081.1	Q2ENC2 [T]	
Eukaryota	Chalcone synthase		<i>Populus alba</i> (White poplar).	ABC86919.1		Q2HZ40	
Eukaryota	Chalcone synthase		<i>Populus alba</i> (White poplar).	ABD24222.1, ABD24224.1, ABD24225.1		Q2ENC4 [T]	
Eukaryota	Polyketide synthase 4		<i>Rubus idaeus</i> (Raspberry).	ABV54602.1		B0LDU5	
Eukaryota	Chalcone synthase		<i>Hypericum perforatum</i> (St. John's wort).	AAL67805.1		Q8W123 [T]	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Hypericum androsaemum</i> (Tutsan).	AAG30295.1		Q9FUB7 [P], Q9FUB7.1	
Eukaryota	Aromatic polyketide synthase		<i>Hypericum hookerianum</i> .	ABM63466.1		A2IBD1 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	<i>Populus trichocarpa</i> (Western balsam poplar) (<i>Populus balsamifera</i> subsp. <i>trichocarpa</i>).	EEE78798.1	XP_002303819.1	B9H086	
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	<i>Citrus sinensis</i> (Sweet orange).	BAA81663.1		Q9XJ58 [T], Q9XJ58.1	
Eukaryota	Chalcone synthase		<i>Cannabis sativa</i> (Hemp) (Marijuana).	AAL92879.1		Q8RVK9 [T]	

Eukaryota	Chalcone synthase	2.3.1.74	Humulus lupulus (European hop).	CAC19808.1		Q9FEY5	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Humulus lupulus (European hop).	ACM17224.1		B9VI85 [T]	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Humulus lupulus (European hop).	CAK19317.1		A0AMG7	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Humulus lupulus (European hop).	CAK19318.1		A0AMG8 [T]	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Humulus lupulus (European hop).	CAK19319.1		A0AMG9 [T]	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Vitis vinifera (Grape).	CAA53583.1		P51090 [T], P51090.1	
Eukaryota	Chalcone synthase	2.3.1.74	Vitis vinifera (Grape).	ABM67586.1	XP_002276946.1	A2ICC5 [T]	
Eukaryota	CHS4		Vitis labrusca x Vitis vinifera.	ACS36661.1		D1FXH3 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Vitis vinifera (Grape).	BAA31259.1		O80407	
Eukaryota	Chalcone synthase		Vitis rotundifolia (Muscadine grape).	ACN30003.1		C0KXH3 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Vitis vinifera (Grape).	BAB84112.1		Q8W3P5	
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_68.assembly12x		Vitis vinifera (Grape).	CBI21259.3		D7SVG0	
Eukaryota	Chalcone synthase		Vitis vinifera (Grape).	AAB72091.1		O22519 [T]	
Eukaryota	PREDICTED: chalcone synthase		Vitis vinifera		XP_002276921.1		

Eukaryota	Chalcone synthase		Prunus cerasifera (cherry plum).	ABH11545.1		Q0MRE1 [T]	
Eukaryota	Putative uncharacterized protein	2.3.1.74	Vitis vinifera (Grape).	BAB84111.1, CAN75038.1	XP_002264019.1	Q8W3P6	
Eukaryota	Chalcone synthase		Malus domestica (Apple) (Pyrus malus).	AAY45748.1, ACJ54533.1		Q4TZJ6 [T]	
Eukaryota	Chalcone synthase		Malus domestica (Apple) (Pyrus malus).	ACJ54531.1		B8R6A2 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Pyrus communis (Pear).	ABI79305.1		Q06FE4 [T]	
Eukaryota	Chalcone synthase		Pyrus communis (Pear).	AAX16494.1		A7MAS6 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Sorbus aucuparia (European mountain ash) (Rowan).	ABB89213.1		Q27Z06 [T]	
Eukaryota	Chalcone synthase		Malus domestica (Apple) (Pyrus malus).	AAX16492.1, ACJ54530.1		A7MAS4 [T]	
Eukaryota	Chalcone synthase		Malus domestica (Apple) (Pyrus malus).	ACJ54532.1, BAB92996.1		Q8L5N6 [T]	
Eukaryota	Chalcone synthase		Abelmoschus manihot (Sweet hibiscus) (Hibiscus manihot).	ACE60221.1		B7SQE0 [T]	
Eukaryota	Chalcone synthase 1		Gossypium hirsutum (Upland cotton) (Gossypium mexicanum).	ACV72638.1		C8YQU8 [T]	
Eukaryota	Chalcone synthase		Gossypium hirsutum (Upland cotton) (Gossypium mexicanum).	ABS52573.1		A7L2Z4 [T]	
Eukaryota	Chalcone synthase		Gossypium hirsutum (Upland cotton) (Gossypium mexicanum).	ACH56521.1		B5LXY1 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEE78799.1	XP_002303820.1	B9H087	

Eukaryota	Chalcone synthase	2.3.1.74	Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEE78800.1	XP_002303821.1	B9H088	
Eukaryota	Chalcone synthase	2.3.1.74	Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEF06787.1	XP_002337752.1	B9P9S8	
Eukaryota	Putative uncharacterized protein	2.3.1.74	Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	ABK95125.1, EEE84087.1	XP_002299282.1	A9PFH2 [T]	
Eukaryota	Chalcone synthase	2.3.1.74	Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEE84086.1	XP_002299281.1	B9GMG1	
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Camellia sinensis (Tea).	BAA05641.1		P48387 [T], P48387.1	
Eukaryota	Chalcone synthase		Camellia sinensis (Tea).	AAT75302.1		Q690N1 [T]	
Eukaryota	Naringenin-chalcone synthase 3	2.3.1.74	Camellia sinensis (Tea).	BAA05642.1		P48388 [T], P48388.1	
Eukaryota	Chalcone synthase		Rhododendron simsii (Sims's rhododendron).	CAC88858.1		Q8L6D2 [T]	
Eukaryota	Chalcone synthase		Camellia sinensis (Tea).	AAO13091.1		Q5VLQ5 [T]	
Eukaryota	Chalcone synthase		Camellia japonica.	BAI66465.1		D2KX93 [T]	
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Camellia sinensis (Tea).	BAA05640.1		P48386 [T], P48386.1	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Juglans nigra x Juglans regia.	CAA64452.1		Q42864 [T]	
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Juglans nigra x Juglans regia.	CAA64366.1		Q42865 [T]	
Eukaryota	Chalcone synthase		Nelumbo nucifera (Sacred lotus).	ADD74168.1		D6C6K7 [T]	

Eukaryota	Chalcone synthase		Nelumbo nucifera (Sacred lotus).	ADD74167.1		D6C6K6 [T]
Eukaryota	Chalcone synthase		Nelumbo nucifera (Sacred lotus).	ADD74169.1, ADD74170.1, ADD74171.1, ADD74172.1		D6C6K8 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	Casuarina glauca (Swamp oak).	CAA10641.1		Q9ZRR8 [T], Q9ZRR8.1
Eukaryota	Chalcone synthase 6		Rubus idaeus (Raspberry).	AAM90652.1		Q8L5L2 [T]
Eukaryota	Aromatic polyketide synthase		Rubus idaeus (Raspberry).	AAK15174.1, ACF72868.1		Q9AU11
Eukaryota	Aromatic polyketide synthase		Rubus idaeus (Raspberry).	AAK15175.1		Q9AU10
Eukaryota	Aromatic polyketide synthase		Rubus idaeus (Raspberry).	AAK15176.1		Q9AU09
Eukaryota	Chalcone synthase 5		Rubus idaeus (Raspberry).	AAM90650.1		Q8L5L4 [T]
Eukaryota	Chalcone synthase 11		Rubus idaeus (Raspberry).	AAM90651.1		Q8L5L3 [T]
Eukaryota	Polyketide synthase 5		Rubus idaeus (Raspberry).	ABV54603.1		B0LDU6
Eukaryota	Chalcone synthase		Rosa hybrid cultivar.	BAC66467.1		Q84UT9 [T]
Eukaryota	Chalcone synthase		Fragaria ananassa (Strawberry).	BAE17123.1		Q4AE09 [T]
Eukaryota	Chalcone synthase		Fragaria ananassa (Strawberry).	BAE17122.1		Q4AE10 [T]

Eukaryota	Chalcone synthase		<i>Fragaria ananassa</i> (Strawberry).	AAX99413.1		Q52NH6 [T]
Eukaryota	Chalcone synthase		<i>Fragaria ananassa</i> (Strawberry).	BAE17124.1		Q4AE08 [T]
Eukaryota	Chalcone synthase		<i>Eustoma grandiflorum</i> (Bluebells) (<i>Lisianthus russellianus</i>).	BAD34456.1		Q6BEH5 [T]
Eukaryota	Chalcone synthase		<i>Eustoma grandiflorum</i> (Bluebells) (<i>Lisianthus russellianus</i>).	BAD34457.1		Q6BEH4 [T]
Eukaryota	Naringenin-chalcone synthase LF4	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA90329.1		Q9MB39 [T], Q9MB39.1
Eukaryota	Naringenin-chalcone synthase LF2	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA90327.1		Q9MB41 [T], Q9MB41.1
Eukaryota	Naringenin-chalcone synthase DIII	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA90331.1		Q9MB37 [T], Q9MB37.1
Eukaryota	Naringenin-chalcone synthase DII	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA90330.1		Q9MB38 [T], Q9MB38.1
Eukaryota	Naringenin-chalcone synthase LF1	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA90486.1		Q9MB33 [T], Q9MB33.1
Eukaryota	Naringenin-chalcone synthase DIV	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA90332.1		Q9MB36 [T], Q9MB36.1
Eukaryota	Chalcone synthase		<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA75310.1		Q9ZQS6 [T]
Eukaryota	Chalcone synthase	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	ABY68457.1		B0FY9 [T]
Eukaryota	Naringenin-chalcone synthase LF3	2.3.1.74	<i>Ipomoea batatas</i> (Sweet potato) (<i>Convolvulus batatas</i>).	BAA90328.1		Q9MB40 [T], Q9MB40.1
Eukaryota	Chalcone synthase		<i>Ipomoea trifida</i> (Morning glory).	AAP82024.1		Q6X3Y1

Eukaryota	Chalcone synthase		<i>Ipomoea alba</i> (Moonflower).	AAP82019.1		Q6X3X2 [T]
Eukaryota	Chalcone synthase		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAK39114.1		Q94KJ3
Eukaryota	Chalcone synthase	2.3.1.74	<i>Ipomoea nil</i> (Japanese morning glory) (<i>Pharbitis nil</i>).	BAA21787.1, BAA87336.1, BAH28850.1, BAH28851.1		O22045 [T], O22045.1, Q54AG9
Eukaryota	Chalcone synthase		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAK39113.1		Q94KJ4
Eukaryota	Chalcone synthase		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAK39110.1		Q94KJ6
Eukaryota	Chalcone synthase		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAK39112.1		Q94KJ5
Eukaryota	Chalcone synthase D		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	ABW69675.1		B4XF28 [T]
Eukaryota	Chalcone synthase		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAK39111.1, AAK39115.1, BAA20387.1, BAA36224.1		O04934 [T]
Eukaryota	Chalcone synthase		<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	AAB41103.1		Q96568 [T]
Eukaryota	Chalcone synthase	2.3.1.74	<i>Ipomoea nil</i> (Japanese morning glory) (<i>Pharbitis nil</i>).	BAA21788.1, BAA87338.1		O22046 [T], O22046.1, Q54AG8
Eukaryota	Chalcone synthase	2.3.1.74	<i>Ipomoea purpurea</i> (Common morning glory) (<i>Pharbitis purpurea</i>).	BAA21789.1, BAA87337.1		O22047 [T], O22047.1, Q76MX1
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Catharanthus roseus</i> (Madagascar periwinkle) (<i>Vinca rosea</i>).	CAA10511.1		Q9ZRS4 [T], Q9ZRS4.1

Eukaryota	Chalcone synthase		Solanum pinnatisectum (tansyleaf nightshade).	AAX63402.1		Q56179 [T]
Eukaryota	Naringenin-chalcone synthase 1	2.3.1.74	Solanum lycopersicum (Tomato) (<i>Lycopersicon esculentum</i>).	CAA38980.1		P23418 [T], P23418.2
Eukaryota	Naringenin-chalcone synthase 1B	2.3.1.74	Solanum tuberosum (Potato).	AAB67735.1		Q43163 [T], Q43163.1
Eukaryota	Naringenin-chalcone synthase 1A	2.3.1.74	Solanum tuberosum (Potato).	AAB67734.1		Q41436 [T], Q41436.1
Eukaryota	Chalcone synthase		Capsicum annuum (Bell pepper).	ACN60400.1		COLF60 [T]
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Solanum lycopersicum (Tomato) (<i>Lycopersicon esculentum</i>).	CAA38981.1		P23419 [T], P23419.2
Eukaryota	Naringenin-chalcone synthase 2	2.3.1.74	Solanum tuberosum (Potato).	AAB05239.1		Q43188 [T], Q43188.1
Eukaryota	Chalcone synthase		Nierembergia sp. NB17.	BAC10998.1		Q8LP19 [T]
Eukaryota	Naringenin-chalcone synthase J	2.3.1.74	Petunia hybrida (Petunia).	CAA32737.1, CAA32739.1		P22928 [T], P22928.2
Eukaryota	Naringenin-chalcone synthase J	2.3.1.74	Petunia hybrida (Petunia).	CAA32737.1, CAA32739.1		P22928 [T], P22928.2
Eukaryota	Chalcone synthase	2.3.1.74	Petunia hybrida (Petunia).	AAF60297.1		Q9M5B2 [T]
Eukaryota	Chalcone synthase		Petunia hybrida (Petunia).	AAB36038.1		Q43040 [T]
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	Petunia hybrida (Petunia).	CAA27718.1, CAA32731.1		P08894 [T], P08894.1
Eukaryota	Naringenin-chalcone synthase A	2.3.1.74	Petunia hybrida (Petunia).	CAA27718.1, CAA32731.1		P08894 [T], P08894.1

Eukaryota	Chalcone synthase		<i>Nicotiana benthamiana</i> .	ABN80439.1		A3RK79 [T]
Eukaryota	Chalcone synthase		<i>Nicotiana alata</i> (Winged tobacco) (Persian tobacco).	ACS12837.1		C5IWS6 [T]
Eukaryota	Chalcone synthase		<i>Nicotiana tomentosiformis</i> (Tobacco).	ACS12836.1		C5IWS5 [T]
Eukaryota	Chalcone synthase		<i>Nicotiana tabacum</i> (Common tobacco).	AAK49457.1		Q93XP8 [T]
Eukaryota	Chalcone synthase		<i>Gentiana triflora</i> (Clustered gentian).	BAE45039.1		Q3M003 [T]
Eukaryota	Chalcone synthase		<i>Mimulus aurantiacus</i> (Bush monkey flower) (<i>Diplacus aurantiacus</i>).	ACA04008.1		B7SJG7 [T]
Eukaryota	Chalcone synthase		<i>Mazus pumilus</i> (Japanese mazus) (<i>Lobelia pumila</i>).	AAN05791.1		Q7XB37 [T]
Eukaryota	Chalcone synthase		<i>Digitalis lanata</i> (Foxglove).	CAA05512.1		O23923 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Antirrhinum majus</i> (Garden snapdragon).	CAA27338.1		P06515, P06515.1
Eukaryota	Chalcone synthase		<i>Misopates orontium</i> .	CAJ44127.1		Q2WBN0 [T]
Eukaryota	Chalcone synthase		<i>Solenostemon scutellarioides</i> (<i>Coleus</i>) (<i>Coleus blumei</i>).	ABP57071.1, ABP57072.1		A5A369 [T]
Eukaryota	Naringenin-chalcone synthase	2.3.1.74	<i>Perilla frutescens</i> (Beefsteak plant) (Chinese basil).	BAA19656.1		O04111 [T], O04111.1
Eukaryota	Chalcone synthase		<i>Perilla frutescens</i> (Beefsteak plant) (Chinese basil).	BAA19548.1		O04065 [T]
Eukaryota	Chalcone synthase		<i>Torenia hybrid</i> cultivar.	BAC87863.1		Q76EK7 [T]

Eukaryota	Chalcone synthase		Torenia hybrid cultivar.	BAB20074.1		Q9FS37 [T]
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Subfamily 4B.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Eukaryota	hypothetical protein		Selaginella moellendorffii	EFJ11847.1, EFJ13445.1	XP_002985571.1, XP_002987004.1		
Eukaryota	Predicted protein		Physcomitrella patens subsp. patens.	EDQ53700.1	XP_001781520.1	A9TSD3	
Eukaryota	Chalcone synthase-like protein		Triticum aestivum (Wheat).	ACB38748.1		C3RTM5 [T]	
Eukaryota	Chalcone synthase-like		Oryza sativa (Rice).	CAA62921.1		Q43595 [T]	
Eukaryota	Putative uncharacterized protein		Oryza sativa subsp. indica (Rice).	EAY78973.1		A2Z8N9	
Eukaryota	cDNA clone:001-127-E05, full insert sequence		Oryza sativa subsp. japonica (Rice).	AAL59036.1, AAP54339.1, BAA23618.1, BAC78574.1, BAF26805.1, BAG97274.1, EAZ16469.1	NP_001064891.1	O23811 [T], Q7X795 [T]	
Eukaryota	Putative uncharacterized protein		Zea mays (Maize).	ACF79526.1	NP_001131211.1	B4FBN3 [T]	
Eukaryota	Putative uncharacterized protein Sb01g018950		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EER94056.1	XP_002467058.1	C5WYB4	
Eukaryota	Chalcone synthase G		Zea mays (Maize).	ACG39754.1	NP_001150611.1	B6TRM1 [T]	
Eukaryota	Putative uncharacterized protein		Zea mays (Maize).	ACF85939.1		B4FUZ6 [T]	
Eukaryota	Putative uncharacterized protein Sb02g009850		Sorghum bicolor (Sorghum) (Sorghum vulgare).	EER98407.1	XP_002461886.1	C5X4D3	
Eukaryota	Putative uncharacterized protein		Zea mays (Maize).	ACN35784.1		C0PKR8 [T]	

Eukaryota	Putative uncharacterized protein		Zea mays (Maize).	ACF88048.1, ACG35664.1, ACN27825.1	NP_001149508.1	B4G105 [T]	
Eukaryota	Putative chalcone synthase		Oryza sativa subsp. japonica (Rice).	BAC21541.1, BAF21363.2	NP_001059449.2	Q8H305	
Eukaryota	Putative uncharacterized protein		Oryza sativa subsp. indica (Rice).	EEC81903.1		B8B5F1	
Eukaryota	Putative uncharacterized protein		Oryza sativa subsp. japonica (Rice).	EAZ39507.1		A3BIW8	
Eukaryota	Putative chalcone synthase		Hordeum vulgare var. distichum (Two-rowed barley).	AAV49989.1		Q5URW3	
Eukaryota	CDS_CHS		Aegilops tauschii (Tausch's goatgrass) (Aegilops squarrosa).	CAJ13966.1		Q15MP7	
Eukaryota	CDS_CHS		Triticum aestivum (Wheat).	CAJ15412.1		Q15MN7	
Eukaryota	Chalcone synthase		Triticum aestivum (Wheat).	ACJ22498.1		B6Z259	
Eukaryota	CDS_CHS		Triticum turgidum (Poulard wheat) (Rivet wheat).	CAJ13548.1		Q15MR1	
Eukaryota	Chalcone synthase		Silene latifolia (White campion) (Bladder campion).	BAE80096.1		Q2ACE2 [T]	
Eukaryota	Chalcone synthase 6 protein		Brassica rapa (Turnip).	ADF43047.1		D5LQ20	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23699.1		Q460W0 [T]	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23704.1		Q460V5 [T]	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23717.1		Q460U2 [T]	

Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23702.1, AAZ23708.1		Q460V1 [T]	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23705.1, AAZ23709.1		Q460V0 [T]	
Eukaryota	Chalcone synthase-like protein		Arabidopsis thaliana (Mouse-ear cress).	CAB45446.1, CAB80202.1		Q9SW49 [T]	
Eukaryota	Putative uncharacterized protein		Arabidopsis thaliana (Mouse-ear cress).	ABK28665.1		A0MFB8 [T]	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AAZ23721.1		Q460T8 [T]	
Eukaryota	Chalcone synthase-like protein		Arabidopsis thaliana (Mouse-ear cress).	AAM63130.1, AAZ23694.1, AAZ23695.1, AAZ23696.1, AAZ23697.1, AAZ23698.1, AAZ23700.1, AAZ23701.1, AAZ23703.1, AAZ23706.1, AAZ23707.1, AAZ23710.1, AAZ23711.1, AAZ23712.1, AAZ23713.1, AAZ23714.1, AAZ23715.1, AAZ23716.1, AAZ23718.1, AAZ23719.1, AAZ23720.1, AAZ23722.1, AAZ23723.1, AAZ23724.1, AAZ23725.1, ABE66111.1	NP_567971.1	Q8LDM2 [T]	

Eukaryota	Chalcone synthase family protein		Arabidopsis lyrata subsp. lyrata.	EFH45381.1	XP_002869122.1	D7MDI2	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23688.1		Q460X1 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23693.1		Q460W6 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23683.1		Q460X6 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23692.1		Q460W7 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23682.1		Q460X7 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23685.1		Q460X4 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23684.1, AAZ23689.1, AAZ23690.1, AAZ23691.1		Q460X0 [T]	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ23686.1, AAZ23687.1		Q460X2 [T]	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002276653.1		
Eukaryota	Chalcone synthase, putative	2.3.1.74	Ricinus communis (Castor bean).	EEF33135.1	XP_002529257.1	B9STD8	
Eukaryota	Chs-like protein		Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEE85993.1	XP_002305482.1	B9H143	
Eukaryota	Chalcone synthase homolog PrChS1		Pinus radiata (Monterey pine).	AAB80804.1		O24484 [T]	

Eukaryota	Chalcone synthase 2 protein		Brassica rapa (Turnip).	ADF43043.1		D5LQ16	
Eukaryota	Putative uncharacterized protein		Arabidopsis lyrata subsp. lyrata.	EFH51308.1	XP_002875049.1	D7M6B5	
Eukaryota	Putative uncharacterized protein At4g00040		Arabidopsis thaliana (Mouse-ear cress).	AAC19299.1, AAN72004.1, AAP37822.1, CAB80762.1	NP_191915.1	O81305 [T]	
Eukaryota	Putative chalcone synthase		Arabidopsis thaliana (Mouse-ear cress).	AAM63363.1		Q8LD79 [T]	
Eukaryota	Polyketide synthase		Hypericum perforatum (St. John's wort).	ABP98922.1		A8QW46 [T]	
Eukaryota	Chalcone synthase 3 protein		Brassica rapa (Turnip).	ADF43044.1		D5LQ17	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96746.1		Q4JNU1	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81862.1, AAZ81865.1, AAZ81866.1		Q3YMX9	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96748.1		Q4JNT9	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96728.1		Q4JNV9	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96719.1		Q4JNW8	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96745.1		Q4JNU2	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96729.1, AA96742.1, AA96743.1		Q4JNU5	

Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96725.1		Q4JNW2	
Eukaryota	T7I23.4 protein		Arabidopsis thaliana (Mouse-ear cress).	AAC24368.1, ABO09877.1	NP_171707.1	O23674 [T]	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96717.1, AA96718.1, AA96726.1, AA96730.1, AA96731.1, AA96732.1, AA96735.1, AA96736.1, AA96739.1, AA96744.1, AA96747.1		Q4JNW9	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96723.1		Q4JNW4	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96721.1		Q4JNW6	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96741.1		Q4JNU6	
Eukaryota	Chalcone synthase family protein		Arabidopsis thaliana (Mouse-ear cress).	AA96720.1, AA96722.1, AA96724.1, AA96727.1, AA96733.1, AA96734.1, AA96737.1, AA96738.1, AA96740.1		Q4JNW5	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81861.1		Q3YMY3	
Eukaryota	Chalcone synthase family protein		Arabidopsis lyrata subsp. lyrata.	EFH65598.1	XP_002889339.1	D7KP48	

Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81859.1, AAZ81864.1		Q3YMY0	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81863.1		Q3YMY1	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81860.1		Q3YMY4	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81868.1		Q3YMX6	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81871.1		Q3YMX3	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81869.1		Q3YMX5	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81870.1		Q3YMX4	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81872.1		Q3YMX2	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81873.1		Q3YMX1	
Eukaryota	Chalcone synthase family protein		Arabis gemmifera.	AAZ81867.1		Q3YMX7	
Eukaryota	Putative chalcone synthase		Artemisia annua (Sweet wormwood).	ACY74337.1		D2WS89 [T]	
Eukaryota	Anther-specific protein		Nicotiana sylvestris (Wood tobacco).	CAA74846.1, CAA74847.1		O24625 [T]	
Eukaryota	PREDICTED: hypothetical protein		Vitis vinifera		XP_002276642.1		
Eukaryota	Whole genome shotgun sequence of line PN40024, scaffold_21.assembly12x		Vitis vinifera (Grape).	CBI16627.3		D7SLU9	

Eukaryota	Putative uncharacterized protein		Vitis vinifera (Grape).	CAN83038.1		A5BAL9	
Eukaryota	Pentatricopeptide repeat-containing protein, putative	2.3.1.74	Ricinus communis (Castor bean).	EEF50296.1	XP_002511627.1	B9RD38	
Eukaryota	Chs-like protein		Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEE73580.1	XP_002326830.1	B9MV12	
Eukaryota	Chs-like protein		Populus trichocarpa (Western balsam poplar) (Populus balsamifera subsp. trichocarpa).	EEE81784.1	XP_002302511.1	B9GPA0	

Subfamily 4C.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Bacteria	Chalcone and stilbene synthase domain protein		Frankia sp. Eu1c.	EFA61271.1	ZP_06237498.1	D1VFS6	
Bacteria	Chalcone and stilbene synthase domain protein		Frankia sp. (strain EAN1pec).	ABW13776.1	YP_001508682.1	A8LAK1	
Bacteria	Chalcone and stilbene synthase domain protein		Stackebrandtia nassauensis (strain DSM 44728 / NRRL B-16338 / NBRC 102104 / LLR-40K-21).	ADD39865.1	YP_003508958.1	D3Q1L7	
Bacteria	Chalcone and stilbene synthase domain protein		Salinispora tropica (strain ATCC BAA-916 / DSM 44818 / CNB-440).	ABP56692.1	YP_001161070.1	A4XCNS	
Bacteria	3-Oxoacyl-(Acyl-carrier-protein (ACP)) synthase III domain protein		Salinispora arenicola (strain CNS-205).	ABW00448.1	YP_001539438.1	A8M7T1	
Bacteria	Chalcone and stilbene synthase domain protein		Geodermatophilus obscurus (strain ATCC 25078 / DSM 43160 / JCM 3152 / G-20).	ADB77357.1	YP_003411728.1	D2S5V1	
Bacteria	Predicted naringenin-chalcone synthase		Saccharomonospora viridis (strain ATCC 15386 / DSM 43017 / JCM 3036 / NBRC 12207 / P101).	ACU97058.1	YP_003133885.1	C7MNV8	
Bacteria	Possible chalcone synthase		Algoriphagus sp. PR1.	EAZ81592.1	ZP_01718257.1	A3HTX0	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Cytophaga hutchinsonii (strain ATCC 33406 / NCIMB 9469).	ABG61026.1	YP_680369.1	Q11NI7	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Dyadobacter fermentans (strain ATCC 700827 / DSM 18053 / NS114).	ACT93260.1	YP_003086425.1	C6VXB7	
Bacteria	Putative Naringenin-chalcone synthase	2.3.1.74	Legionella longbeachae serogroup 1 (strain NSW150).	CBJ11980.1, EEZ94883.1	YP_003455079.1, ZP_06185261.1	D1RDZ1, D3HSU0	
Bacteria	Possible chalcone synthase	2.3.1.74	Psychrobacter arcticus (strain DSM 17307 / 273-4).	AAZ18284.1	YP_263718.1	Q4FUM4	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Psychromonas ingrahamii (strain 37).	ABM02123.1	YP_941722.1	A1SRK8	
Bacteria	Chalcone and stilbene synthase domain protein	2.3.1.74	Planctomyces limnophilus (strain ATCC 43296 / DSM 3776 / IFAM 1008 / 290).	ADG66315.1	YP_003628514.1	D5SQ63	

Bacteria	Chalcone synthase (CHS)		Planctomyces maris DSM 8797.	EDL61209.1	ZP_01852955.1	A6C2B7	
Bacteria	Phloroisovalerophenone synthase	2.3.1.156	Cyanobium sp. PCC 7001.	EDY38841.1	ZP_05045532.1	B5IIM9	
Bacteria	Chalcone synthase (CHS)		Synechococcus sp. WH 5701.	EAQ76409.1	ZP_01083428.1	A3YTP8	
Bacteria	Chalcone synthase	2.3.1.74	Synechococcus sp. (strain CC9311).	ABI47585.1	YP_730665.1	Q0IA57	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Synechococcus sp. (strain CC9902).	ABB26303.1	YP_377347.1	Q3AVG8	
Bacteria	Chalcone synthase (CHS)		Synechococcus sp. RS9917.	EAQ68835.1	ZP_01080545.1	A3Z835	
Bacteria	Chalcone synthase (CHS)		Synechococcus sp. (strain WH7805).	EAR18478.1	ZP_01123843.1	A4CTW3	
Bacteria	Probable chalcone synthase		Rhodobacterales bacterium HTCC2654.	EAQ14941.1	ZP_01011634.1	A3VAK0	
Bacteria	Putative naringenin-chalcone synthase	2.3.1.74	Sphingobium japonicum (strain NBRC 101211 / UT26S).	BAI98621.1	YP_003559353.1	D4Z802	
Bacteria	Chalcone and stilbene synthase domain protein		Sphingomonas wittichii (strain RW1 / DSM 6014 / JCM 10273).	ABQ67552.1	YP_001261690.1	A5V5I6	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Rhodomicrobium vannielii ATCC 17100.	EFC12353.1	ZP_06348506.1	D2LBN1	
Bacteria	Chalcone and stilbene synthase domain protein		Acidobacterium sp. MP5ACTX8.	EFI58361.1	ZP_07029267.1	D6UMU2	
Bacteria	Chalcone and stilbene synthase domain protein		Acidobacterium sp. MP5ACTX8.	EFI54664.1	ZP_07032746.1	D6UXM0	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Sorangium cellulosum (strain So ce56) (Polyangium cellulosum (strain So ce56)).	AAZ93633.1, CAN92341.1	YP_001612821.1	A1X3E7, A9FW42	

Bacteria	Naringenin-chalcone synthase	2.3.1.74	Methylocella silvestris (strain BL2 / DSM 15510 / NCIMB 13906).	ACK52293.1	YP_002363655.1	B8ES78	
Bacteria	Chalcone and stilbene synthase domain protein		Mesorhizobium opportunistum WSM2075.	EEW30092.1	ZP_05813620.1	C8SW52	
Bacteria	Chalcone and stilbene synthase domain protein		Spirosoma linguale (strain ATCC 33905 / DSM 74 / LMG 10896).	ADB38550.1	YP_003387349.1	D2QGP2	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Salinibacter ruber (strain M8).	CBH24512.1	YP_003571464.1	D5H907	
Bacteria	Chalcone synthase, putative	2.3.1.-	Salinibacter ruber (strain DSM 13855 / M31).	ABC45053.1	YP_445519.1	Q2S2R2	
Bacteria	Putative chalcone synthase (Naringenin-chalcone synthase)		Arthrobacter aurescens (strain TC1).	ABM08426.1	YP_947940.1	A1R6S8	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Arthrobacter chlorophenolicus (strain A6 / ATCC 700700 / DSM 12829 / JCM 12360).	ACL39914.1	YP_002488003.1	B8H8N6	
Bacteria	Extracellular solute-binding protein	2.3.1.74	Arthrobacter sp. (strain FB24).	ABK03578.1	YP_831678.1	A0JX08, A0K079	
Bacteria	Predicted naringenin-chalcone synthase		Sanguibacter keddieii (strain ATCC 51767 / DSM 10542 / NCFB 3025 / ST-74).	ACZ21815.1	YP_003314649.1	D1BH95	
Bacteria	Putative chalcone synthase/polyketide synthase III	2.3.1.74	Clavibacter michiganensis subsp. michiganensis (strain NCPPB 382).	CAN01581.1	YP_001222276.1	A5CR76	
Bacteria	Putative chalcone synthase	2.3.1.74	Clavibacter michiganensis subsp. sepedonicus (strain ATCC 33113 / JCM 9667).	CAQ01876.1	YP_001710480.1	BORDCO	

Subfamily 4D.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Eukaryota	Putative polyketide synthase		Polysphondylium pallidum PN500.	EFA86495.1		D3AW22	
Eukaryota	Polyketide Synthase III	2.3.1.-	Ectocarpus siliculosus Ec 32	CBN76919.1			
Eukaryota	Polyketide Synthase III (C-terminal region) Polyketide Synthase III (N-terminal region)	2.3.1.-	Ectocarpus siliculosus (Brown alga).	CBJ28635.1		D7FHT0	
Bacteria	Chalcone and stilbene synthase domain protein		Tsakamurella paurometabola (strain ATCC 8368 / DSM 20162 / JCM 10117 / NBRC 16120 / NCTC 13040) (Corynebacterium paurometabolum).	ADG78933.1	YP_003647272.1	D5UQG3	
Bacteria	Putative type III polyketide synthase		Nocardia farcinica.	BAD59781.1	YP_121145.1	Q5YPW0	
Bacteria	Putative uncharacterized protein		Mycobacterium bovis (strain BCG / Tokyo 172 / ATCC 35737 / TMC 1019).	BAH25695.1, CAL71420.1	YP_002644463.1, YP_977525.1	A1KIG1, C1AN16	
Bacteria	conserved hypothetical protein		Mycobacterium tuberculosis EAS054	EFD61468.1	ZP_03428177.1, ZP_06512830.1		
Bacteria	conserved hypothetical protein		Mycobacterium tuberculosis K85	EFD43047.1	ZP_05772124.1, ZP_06454265.1		

Bacteria	Putative uncharacterized protein		Mycobacterium tuberculosis.	AAK45681.1, ABQ73124.1, ABR05744.1, ACT25685.1, CAE55381.1, EAY59691.1, EBA41821.1, EFD12974.1, EFD21963.1, EFD46789.1, EFD53138.1, EFD57942.1, EFD77053.1	YP_001282686.1, YP_001287346.1, YP_003032580.1, YP_177803.1, ZP_02550701.1, ZP_03415401.1, ZP_03424617.1, ZP_03432308.1, ZP_03536352.1, ZP_04924949.1, ZP_04980308.1, ZP_05140833.1, ZP_05220181.1, ZP_05767919.1, ZP_06432559.1, ZP_06444048.1, ZP_06449614.1, ZP_06504500.1, ZP_06509304.1, ZP_06516855.1, ZP_06800624.1, ZP_06951706.1, ZP_06960033.1, ZP_07409824.1, ZP_07413891.1, ZP_07419039.1, ZP_07422424.1, ZP_07426791.1, ZP_07435497.1,	A2VHR0, A4KGT6, A5U274, A5WM55, C6DTL2, D6F3Y3, Q7D8I1 [P]	1TED, 1TEE
Bacteria	chalcone/stilbene synthase		Mycobacterium tuberculosis CPHL_A	EFD17126.1	ZP_05763785.1, ZP_06436711.1		
Bacteria	hypothetical protein Mtub9_06723		Mycobacterium tuberculosis 94_M4241A		ZP_03419826.1		
Bacteria	Putative uncharacterized protein		Mycobacterium tuberculosis 94_M4241A.	EFI29965.1	ZP_07012286.1	D7EQG3	
Bacteria	chalcone/stilbene synthase		Mycobacterium kansasii ATCC 12478		ZP_04749411.1		
Bacteria	Chalcone/stilbene synthase		Mycobacterium ulcerans (strain Agy99).	ABL04253.1	YP_905724.1	AOPPI4	

Bacteria	Chalcone/stilbene synthase		Mycobacterium marinum (strain ATCC BAA-535 / M).	ACC40639.1	YP_001850494.1	B2HNE1
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Subfamily 4E.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Eukaryota	Putative uncharacterized protein		<i>Aspergillus flavus</i> (strain ATCC 200026 / FGSC A1120 / NRRL 3357 / JCM 12722 / SRRCL 167).	EED58086.1	XP_002373698.1	B8MW95	
Eukaryota	hypothetical protein CIMG_01741		<i>Coccidioides immitis</i> RS		XP_001247970.1		
Eukaryota	Chalcone synthase, putative		<i>Coccidioides posadasii</i> (strain C735) (Valley fever fungus).	EER23379.1	XP_003065524.1	C5PFS6	
Eukaryota	Putative uncharacterized protein		<i>Botryotinia fuckeliana</i> (strain B05.10) (Noble rot fungus) (<i>Botrytis cinerea</i>).	EDN25875.1	XP_001555327.1	A6S0F8	
Eukaryota	Putative uncharacterized protein		<i>Sclerotinia sclerotiorum</i> (strain ATCC 18683 / 1980 / Ss 1) (White mold) (<i>Whetzelinia sclerotiorum</i>).	EDN99484.1	XP_001596122.1	A7EAK6	
Eukaryota	Predicted CDS Pa_4_9290		<i>Podospora anserina</i> .	CAP66562.1	XP_001905896.1	B2AQY4	
Eukaryota	hypothetical protein FG08378.1		<i>Gibberella zeae</i> PH-1		XP_388554.1		
Eukaryota	hypothetical protein MGG_04643		<i>Magnaporthe oryzae</i> 70-15		XP_362198.2		
Eukaryota	Putative type III polyketide synthase		<i>Sordaria macrospora</i> .	CBI50968.1		D1Z3X7	
Eukaryota	Putative uncharacterized protein		<i>Neurospora crassa</i> .	EAA31191.1	XP_960427.1	Q7S6N4 [P]	3E1H, 3EUO, 3EUQ, 3EUT
Eukaryota	Chalcone synthase 4		<i>Pyrenophora tritici-repentis</i> (strain Pt-1C-BFP) (Wheat tan spot fungus) (<i>Drechslera tritici-repentis</i>).	EDU47508.1	XP_001934934.1	B2W4Q1	
Eukaryota	Putative uncharacterized protein		<i>Phaeosphaeria nodorum</i> (Glume blotch fungus) (<i>Septoria nodorum</i>).	EAT81488.2	XP_001801244.1	Q0UB75	

Eukaryota	Putative uncharacterized protein		Arthroderma benhamiae (strain CBS 112371) (Trichophyton mentagrophytes).	EFE33957.1	XP_003014860.1	D4AT57	
Eukaryota	Putative uncharacterized protein		Trichophyton verrucosum (strain HKI 0517).	EFE42584.1	XP_003023202.1	D4D6E0	
Eukaryota	Predicted CDS Pa_6_7330		Podospora anserina.	CAP71782.1	XP_001910646.1	B2B3U6	
Eukaryota	hypothetical protein MGG_06254		Magnaporthe oryzae 70-15		XP_369739.2		

Subfamily 4F.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Bacteria	Putative DpgA		Legionella drancourtii LLAP12.	EET11468.1	ZP_05110839.1	C6N494	
Bacteria	3-Oxoacyl-(Acyl-carrier-protein (ACP)) synthase III domain protein		Kribbella flavida (strain DSM 17836 / JCM 10339 / NBRC 14399).	ADB33179.1	YP_003381978.1	D2PSP1	
Bacteria	DpgA		Streptomyces toyocaensis.	AAM80548.1		Q8KLK5	
Bacteria	GCN5-related N-acetyltransferase		Frankia sp. (strain Ccl3).	ABD11825.1	YP_481554.1	Q2JA67, Q2JDY2	
Bacteria	Type III polyketide synthase		Streptomyces violaceoruber.	CAQ52620.1		COZ471	
Bacteria	Chalcone and stilbene synthase domain protein		Nocardiopsis dassonvillei subsp. dassonvillei DSM 43111.	ADH67168.1	YP_003679674.1	D7B4X8	
Bacteria	Chalcone and stilbene synthase domain protein		bacterium Ellin514.	EEF58006.1	ZP_03631697.1	B9XQ88	
Bacteria	3-Oxoacyl-(Acyl-carrier-protein (ACP)) synthase III domain protein		Geobacter sp. M18.	EET33876.1	ZP_05313430.1	C6MWB6	
Bacteria	3-Oxoacyl-(Acyl-carrier-protein (ACP)) synthase III domain protein		Desulfomicrobium baculatum (strain DSM 4028 / VKM B-1378) Desulfovibrio baculatus).	ACU90197.1	YP_003158613.1	C7LNX3	
Bacteria	Putative Chalcone and stilbene synthase domain protein		NC10 bacterium 'Dutch sediment'.	CBE67772.1		D5MLA6	

Subfamily 4G.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Bacteria	Putative uncharacterized protein		<i>Yersinia mollaretii</i> ATCC 43969.	EEQ11777.1	ZP_04639788.1	C4S9M0	
Bacteria	PhID		<i>Vibrio coralliilyticus</i> ATCC BAA-450.	EEX31091.1	ZP_05887524.1	C9NX65	
Bacteria	Putative uncharacterized protein		<i>Vibrio cholerae</i> RC385.	EFH75677.1	ZP_06941178.1	A6Y3F2	
Bacteria	PhID		<i>Vibrio</i> sp. RC586.	EEY98257.1	ZP_06080642.1	D0IK93	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	<i>Ralstonia solanacearum</i> CMR15	CBJ41001.1			
Bacteria	Naringenin-chalcone synthase	2.3.1.74	<i>Sorangium cellulosum</i> (strain So ce56) (<i>Polyangium cellulosum</i> (strain So ce56)).	AAZ93632.1, CAN92292.1	YP_001612772.1	A1X3E6, A9FVM5	
Bacteria	Putative 1,3,6,8-tetrahydroxynaphthalene synthase (Type III PKS)		<i>Streptomyces cinnamonensis</i> .	CAL34084.1		A2AXE5	
Bacteria	Probable Type III PKS		<i>Streptomyces</i> sp. KO-3988.	BAE78969.1		Q2L6E9	
Bacteria	Type III polyketide synthase RppA		<i>Streptomyces antibioticus</i> .	BAB91443.1, BAD89289.1		Q8L3D2	
Bacteria	Type-III PKS		<i>Streptomyces griseus</i> subsp. <i>griseus</i> (strain JCM 4626 / NBRC 13350).	BAA33495.1, BAE07216.1, BAG23449.1	YP_001828132.1	B1VLQ8, Q54240	
Bacteria	Chalcone and stilbene synthase domain protein		<i>Streptomyces</i> sp. ACT-1.	EFB84224.1	ZP_06276870.1	D1WT22	
Bacteria	Chalcone and stilbene synthase domain protein		<i>Frankia</i> sp. EUN1f.	EFC81126.1	ZP_06416051.1	D3D7H7	
Bacteria	Chalcone and stilbene synthase domain protein		<i>Frankia</i> symbiont of <i>Datisca glomerata</i> .	EFD29408.1	ZP_06473869.1	D3M0D5	

Bacteria	Type III PKS, putative chalcone synthase	2.3.1.74	Streptomyces clavuligerus ATCC 27064	EFG10559.1	ZP_06774960.1		
Bacteria	putative type III polyketide synthase		Saccharopolyspora erythraea NRRL 2338		ZP_06563505.1		
Bacteria	Putative type III polyketide synthase	2.3.1.74	Saccharopolyspora erythraea (strain NRRL 23338).	CAM00568.1	YP_001103493.1	A4F943	
Bacteria	RppA		Saccharopolyspora erythraea (Streptomyces erythraeus).	AAL78053.1			Q8KQM3
Bacteria	Type III polyketide synthase		Streptomyces avermitilis.	BAB69299.1, BAC74842.1	NP_828307.1		Q93H91
Bacteria	Type III polyketide synthase RppB		Streptomyces antibioticus.	BAB91444.1			Q8L3D1
Bacteria	2,4-diacetylphloroglucinol biosynthesis protein		Streptomyces sp. e14	EFF89799.1	ZP_06706677.1		
Bacteria	type III polyketide synthase RppA		Streptomyces lividans TK24	EFD70720.1	ZP_05527630.1, ZP_06532470.1		
Bacteria	Putative polyketide synthase		Streptomyces coelicolor.	CAC01488.1	NP_625495.1	Q9FCA7 [P]	1U0M
Bacteria	Type III polyketide synthase RppA		Streptomyces lividans.	BAB91445.1			Q8L3D0
Bacteria	Putative polyketide synthase		Streptomyces coelicolor.	CAC01488.1	NP_625495.1	Q9FCA7 [P]	1U0M
Bacteria	PhID		Pseudomonas aeruginosa (strain LESB58).	ACD39163.1, CAW27303.1	YP_002440177.1	B3G2A1, B7V327	
Bacteria	Putative polyketide synthase		Pseudomonas fluorescens.	ACZ67849.1			D2K6G4

Bacteria	PhID		Pseudomonas fluorescens (strain Pf-5 / ATCC BAA-477).	AAY95147.1	YP_263015.1	Q4K418	
Bacteria	PhID		Pseudomonas fluorescens.	BAD00181.1		Q75V74	
Bacteria	PhID		Pseudomonas fluorescens.	AAM27403.1		Q8L2P0	
Bacteria	PhID		Pseudomonas fluorescens.	AAB48106.1, ADG03656.1		Q51725	

Subfamily 4H.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Bacteria	Naringenin-chalcone synthase		Psychroflexus torquis ATCC 700755.	EAS72602.1	ZP_01252733.1	Q1VX51	
Bacteria	Naringenin-chalcone synthase		Croceibacter atlanticus HTCC2559.	EAP86540.1	YP_003716923.1	A3U9Q4	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Gramella forsetii (strain KT0803).	CAL66583.1	YP_861650.1	A0M1T8	
Bacteria	Chalcone and stilbene synthase domain protein		Spirosoma linguale (strain ATCC 33905 / DSM 74 / LMG 10896).	ADB39198.1	YP_003387997.1	D2QMD5	
Bacteria	3-oxoacyl-[acyl-carrier-protein (ACP)] synthase III		Polaribacter sp. MED152.	EAQ42771.1	ZP_01053343.1	A2TYE6	
Bacteria	Naringenin-chalcone synthase		Leeuwenhoekiella blandensis (strain CECT 7118 / CCUG 51940 / MED217) Flavobacterium sp. (strain MED217)).	EAQ50610.1	ZP_01060142.1	A3XIK8	
Bacteria	Chalcone/stilbene synthase family protein		Pedobacter sp. BAL39.	EDM36626.1	ZP_01884187.1	A6ED58	
Bacteria	Chalcone and stilbene synthase domain protein		Pedobacter heparinus (strain ATCC 13125 / DSM 2366 / NCIB 9290).	ACU03855.1	YP_003091917.1	C6XUK5	
Bacteria	Putative uncharacterized protein		Dokdonia donghaensis MED134.	EAQ40026.1	ZP_01048792.1	A2TPD4	
Bacteria	Chalcone/stilbene polyketide synthase family protein		Flavobacterium johnsoniae (strain ATCC 17061 / DSM 2064 / UW101) Cytophaga johnsonae).	ABQ06819.1	YP_001196138.1	A5FDA2	
Bacteria	Chalcone and stilbene synthase domain protein		Chitinophaga pinensis (strain ATCC 43595 / DSM 2588 / NCIB 11800 / UQM 2034).	ACU62466.1	YP_003124667.1	C7PPQ6	

Subfamily 4I.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Bacteria	COG3424: Predicted naringenin-chalcone synthase		Magnetospirillum magnetotacticum MS-1		ZP_00209010.1		
Bacteria	Chalcone and stilbene synthases-like		Acidobacteria bacterium (strain Ellin345).	ABF42106.1	YP_592180.1	Q1ILZ4	
Bacteria	3-Oxoacyl-(Acyl-carrier-protein (ACP)) synthase III domain protein		Anaeromyxobacter sp. (strain Fw109-5).	ABS28363.1	YP_001381347.1	A7HI17	
Bacteria	Chalcone/stilbene synthase family protein		Myxococcus xanthus (strain DK 1622).	ABF87000.1	YP_634756.1	Q1CXW7	
Bacteria	Putative transferase		marine actinobacterium PHSC20C1.	EAR26190.1	ZP_01129194.1	A4AEY9	
Bacteria	Chalcone and stilbene synthases domain protein		Mycobacterium gilvum (strain PYR-GCK) (Mycobacterium flavescens strain ATCC 700033 / PYR-GCK)).	ABP46462.1	YP_001135250.1	A4TCK2	
Bacteria	Chalcone and stilbene synthases domain protein		Mycobacterium gilvum (strain PYR-GCK) (Mycobacterium flavescens strain ATCC 700033 / PYR-GCK)).	ABP47606.1	YP_001136394.1	A4T1J7	

Bacteria	Possible chalcone synthase pks10	2.3.1.74	Mycobacterium tuberculosis.	AAK45967.1, ABQ73417.1, ABR06021.1, ACT25406.1, CAB06631.1, EAY59927.1, EBA42063.1, EFD21690.1, EFD43338.1, EFD53918.1, EFD73332.1,	NP_336153.1, YP_001282979.1, YP_001287623.1, YP_003032301.1, ZP_03416216.1, ZP_03532163.1, ZP_04925185.1, ZP_04980550.1, ZP_05141115.1, ZP_05220457.1, ZP_05772421.1, ZP_06443775.1, ZP_06454556.1, ZP_06505280.1, ZP_06521188.1, ZP_06802302.1, ZP_06951993.1, ZP_06960318.1, ZP_07410109.1, ZP_07414184.1, ZP_07422715.1, ZP_07427083.1, ZP_07431397.1, ZP_07435779.1, ZP_07440026.1, ZP_07444607.1, ZP_07480417.1, ZP_07484615.1, ZP_07488839.1,	A2VIE6, A4KHH8, A5U317, A5WMY2, C6DS11, P94995
Bacteria	chalcone synthase pks10		Mycobacterium tuberculosis CPHL_A	EFD17431.1	ZP_05764084.1, ZP_06437016.1	
Bacteria	Possible Naringenin-chalcone synthase	2.3.1.74	Mycobacterium parascrofulaceum ATCC BAA-614.	EFG79592.1	ZP_06847128.1	D5P325
Bacteria	Pks10		Mycobacterium paratuberculosis.	AAS03686.1	NP_960303.1, ZP_05217077.1	Q74012

Bacteria	Pks10 protein		Mycobacterium avium (strain 104).	ABK69381.1	YP_882294.1	A0QHA6	
Bacteria	Possible Naringenin-chalcone synthase	2.3.1.74	Mycobacterium parascrofulaceum ATCC BAA-614.	EFG79509.1	ZP_06847134.1	D5P331	
Bacteria	chalcone synthase pks11		Mycobacterium tuberculosis K85	EFD43343.1	ZP_05772426.1, ZP_06454561.1		
Bacteria	chalcone synthase pks11		Mycobacterium tuberculosis CPHL_A	EFD17437.1	ZP_05764090.1, ZP_06437022.1		

Bacteria	Possible chalcone synthase pks11	2.3.1.74	Mycobacterium tuberculosis.	AAK45972.1, ABQ73422.1, ABR06026.1, ACT25401.1, CAB09101.1, EAY59930.1, EBA42068.1, EFD13282.1, EFD21685.1, EFD47114.1, EFD53913.1, EFD58236.1, EFD61772.1, EFD73340.1, EFD77352.1, EFI30253.1	NP_336158.1, YP_001282984.1, YP_001287628.1, YP_003032296.1, ZP_02551495.1, ZP_03416211.1, ZP_03420122.1, ZP_03424907.1, ZP_03428477.1, ZP_03432605.1, ZP_03532168.1, ZP_03536663.1, ZP_04925188.1, ZP_04980555.1, ZP_05141121.1, ZP_05220462.1, ZP_05768221.1, ZP_06432867.1, ZP_06443770.1, ZP_06449939.1, ZP_06505275.1, ZP_06509598.1, ZP_06513134.1, ZP_06517154.1, ZP_06521196.1, ZP_06802307.1, ZP_06951998.1, ZP_06960323.1, ZP_07012574.1,	A2VIE9, A4KHI3, A5U322, A5WMY7, C6DS06, D7ERA1, O06587
Bacteria	Putative transferase		Streptomyces coelicolor.	CAC17488.1	NP_631710.1	Q9EWQ6
Bacteria	3-oxoacyl-(ACP) synthase III		Streptosporangium roseum (strain ATCC 12428 / DSM 43021 / JCM 3005 / NI 9100).	ACZ88684.1	YP_003341427.1	D2AU29
Bacteria	type-III PKS		Streptomyces roseosporus NRRL 11379		ZP_04697984.1, ZP_04713181.1	

Bacteria	transferase		Streptomyces roseosporus NRRL 15998	EFE79347.1	ZP_06588886.1	
Bacteria	Putative uncharacterized protein		Streptomyces sviveus ATCC 29083.	EDY57749.1	ZP_06918562.1	B5HY44
Bacteria	Chalcone and stilbene synthases domain protein		Mycobacterium sp. (strain JLS).	ABN98152.1	YP_001070643.1	A3PZ25
Bacteria	chalcone synthase		Mycobacterium kansasii ATCC 12478		ZP_04751145.1	
Bacteria	Chalcone synthase		Mycobacterium marinum (strain ATCC BAA-535 / M).	ACC42719.1	YP_001852574.1	B2HSZ8
Bacteria	transferase		Mycobacterium avium subsp. avium ATCC 25291		ZP_05215672.1	
Bacteria	Putative uncharacterized protein		Mycobacterium paratuberculosis.	AAS04959.1	NP_961576.1	Q73WL8
Bacteria	Transferase		Mycobacterium avium (strain 104).	ABK65395.1	YP_880525.1	A0QC87

Subfamily 4J.

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB
Bacteria	Naringenin-chalcone synthase		Anoxybacillus flavithermus (strain DSM 21510 / WK1).	ACJ33731.1	YP_002315716.1	B7GKS5	
Bacteria	Naringenin-chalcone synthase		Geobacillus thermodenitrificans (strain NG80-2).	ABO66772.1	YP_001125517.1	A4IN68	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Bacillus pumilus (strain SAFR-032).	ABV62611.1	YP_001487171.1	A8FEE4	
Bacteria	Putative chalcone synthase (Naringenin-chalconesynthase)	2.3.1.74	Bacillus pumilus ATCC 7061.	EDW21200.1	ZP_03055638.1	B4AKQ1	
Bacteria	BcsA	2.3.1.74	Bacillus amyloliquefaciens (strain FZB42).	ABS74382.1	YP_001421613.1	A7Z5V6	
Bacteria	Terpene family molecule synthase		Bacillus subtilis subsp. spizizenii ATCC 6633.	ADM38200.1, EFG94256.1	YP_003866509.1, ZP_06871999.1	D5MV57	
Bacteria	Naringenin-chalcone synthase		Bacillus subtilis subsp. natto BEST195.	BAI85702.1		D4FXX1	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Bacillus subtilis.	AAA96613.1, CAB14122.1	NP_390087.1, ZP_03591968.1, ZP_03596248.1, ZP_03600659.1, ZP_03604935.1	P54157, P54157.1	
Bacteria	Naringenin-chalcone synthase		Bacillus sp. SG-1.	EDL63584.1	ZP_01861349.1	A6CRB1	
Bacteria	Chalcone and stilbene synthase domain protein		Bacillus cellulosilyticus DSM 2522.	EFC16942.1	ZP_06363263.1	D2LVK8	
Bacteria	naringenin-chalcone synthase		Lysinibacillus fusiformis ZC1	EFI66948.1	ZP_07051441.1		
Bacteria	Putative chalcone synthase	2.3.1.74	Lysinibacillus sphaericus (strain C3-41).	ACA41883.1	YP_001700013.1	B1HZM4	

Bacteria	Putative uncharacterized protein		Bacillus sp. B14905.	EAZ86678.1	ZP_01722746.1	A3I6Q9	
Bacteria	Naringenin-chalcone synthase		Bacillus pseudofirmus (strain OF4).	ADC49980.1	YP_003426872.1	D3FSL2	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Bacillus clausii (strain KSM-K16).	BAD63537.1	YP_174498.1	Q5WJB8	
Bacteria	Chalcone and stilbene synthase domain protein		Bacillus tusciae (strain DSM 2912 / NBRC 15312 / T2).	ADG07121.1	YP_003590265.1	D5WSV2	
Bacteria	Chalcone and stilbene synthase domain protein		Starkeya novella DSM 506.	ADH91018.1	YP_003695637.1	D6ZYP9	
Bacteria	Chalcone synthase protein		Agrobacterium radiobacter (strain K84 / ATCC BAA-868).	ACM25551.1	YP_002543476.1	B9J9T3	
Bacteria	Chalcone and stilbene synthase domain protein		Rhizobium leguminosarum bv. trifolii (strain WSM1325).	ACS54740.1	YP_002974279.1	C6B1M1	
Bacteria	Putative uncharacterized protein		Rhizobium leguminosarum bv. viciae (strain 3841).	CAK06280.1	YP_766396.1	Q1ML73	
Bacteria	3-Oxoacyl-(Acyl-carrier-protein (ACP)) synthase III domain protein		Rhizobium leguminosarum bv. trifolii (strain WSM2304).	ACI53697.1	YP_002279923.1	B5ZR65	
Bacteria	probable chalcone synthase protein		Rhizobium etli 8C-3		ZP_03513853.1		
Bacteria	Probable chalcone synthase protein	2.3.1.74	Rhizobium etli (strain CIAT 652).	ACE89810.1	YP_001976988.1	B3PQG4	
Bacteria	Probable chalcone synthase protein	2.3.1.74	Rhizobium etli (strain CFN 42 / ATCC 51251).	ABC89558.1	YP_468285.1	Q2KC78	
Bacteria	Putative uncharacterized protein	3.5.1.5	Rhodobacter sphaeroides (strain ATCC 17029 / ATH 2.4.9).	ABN76972.1	YP_001043744.1	A3PKV6, A3PL38, A3PLC9	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Rhodobacter sphaeroides (strain ATCC 17023 / 2.4.1 / NCIB 8253 / DSM 158).	ABA79397.1	YP_353298.1	Q3J1D7	

Bacteria	Probable chalcone synthase protein	2.3.1.74	Rhizobium etli (strain CFN 42 / ATCC 51251).	AAM55027.1, ACE93764.1	NP_660014.1, YP_001984314.1	B3Q258, Q8KKV3	
Bacteria	probable chalcone synthase protein		Rhizobium etli GR56		ZP_03524522.1		
Bacteria	Naringenin-chalcone synthase, putative	2.3.1.74	Pseudovibrio sp. JE062.	EEA93424.1	ZP_05086158.1	B6YYI7	
Bacteria	Naringenin-chalcone synthase	2.3.1.74	Roseobacter sp. GAI101.	EEB84054.1	ZP_05099752.1	B7RHQ9	
Bacteria	Naringenin-chalcone synthase, putative	2.3.1.74	Octadecabacter antarcticus 238.	EDY92683.1	ZP_05067444.1	B5K5K6	
Bacteria	Chalcone synthase, putative	2.3.1.74	Rhodospirillum centenum (strain ATCC 51521 / SW).	AAD43969.1, ACI98675.1	YP_002297488.1	B6IT04, Q9XCY2	
Bacteria	Chalcone synthase, putative		Heliobacterium modesticaldum (strain ATCC 51547 / Ice1).	ABZ83023.1	YP_001679034.1	B0TF40	
Bacteria	Probable naringenin-chalcone synthase	2.3.1.74	Brevibacillus brevis (strain 47 / JCM 6285 / NBRC 100599).	BAH44642.1	YP_002773146.1	COZFT3	
Bacteria	Chalcone and stilbene synthases-like protein		Rubrobacter xylanophilus (strain DSM 9941 / NBRC 16129).	ABG04050.1	YP_643862.1	Q1AX28	

KS4 outliers.

Outliers

Type	Sequence	EC Number	Organism	GenBank ID	RefSeq	UniProt	PDB	
Bacteria	Beta-ketoacyl-ACP synthase III	2.3.1.180	<i>Chlamydomonada caviae</i> .	AAP05228.1	NP_829350.1	Q820E6, Q820E6.1		Between SubB and SubC
Eukaryota	Predicted protein		<i>Physcomitrella patens</i> subsp. <i>patens</i> .	EDQ71691.1	XP_001763502.1	A9SAQ7		
Eukaryota	Alkylresorcinol synthase		<i>Physcomitrella patens</i> (Moss).	ABU87504.1		A9Q6I2 [T]		
Eukaryota	Predicted protein		<i>Physcomitrella patens</i> subsp. <i>patens</i> .	EDQ76275.1	XP_001758769.1	A9RXI7		
Bacteria	Putative uncharacterized protein		<i>Parachlamydia acanthamoebae</i> str. Hall's coccus.	EFB40964.1	ZP_06299952.1	D1R9E1		Between SubD and SubE
Eukaryota	Beta-ketoacyl synthase		<i>Naegleria gruberi</i> (Amoeba).	EFC48204.1	XP_002680948.1	D2V518		
Eukaryota	Putative polyketide synthase		<i>Polysphondylium pallidum</i> PN500.	EFA83735.1		D3B337		
Eukaryota	Steely1	2.3.1.- 2.3.1.74	<i>Dictyostelium discoideum</i> (Slime mold).	EAL72032.1	XP_645909.1	Q55E72 [P], Q55E72.1		Between SubH and SubI
Bacteria	Genome sequencing data, contig C325		<i>Microcystis aeruginosa</i> PCC 7806.	CAO90358.1		A8YL07		

KS4 phylogenetic tree.

