

Supplementary Table 1. Sequences producing significant alignments.

Description	Max score	Total score	Query cover	E value	Ident	Accession
3-beta-hydroxysteroiddehydrogenase [Digitalis lanata]	524	524	99%	0.0	100%	CAC93667.1
3-beta hydroxysteroid dehydrogenase [Digitalis thapsi]	520	520	99%	0.0	99%	AAV68715.1
3-beta hydroxysteroid dehydrogenase [Digitalis parviflora]	516	516	99%	0.0	98%	AAV68713.1
3-beta-hydroxysteroid dehydrogenase [Digitalis ferruginea]	515	515	99%	0.0	97%	AIY27794.1
3-beta hydroxysteroid dehydrogenase [Digitalis grandiflora]	508	508	99%	0.0	97%	AAV68712.1
3-beta hydroxysteroid dehydrogenase [Digitalis ferruginea]	502	502	99%	1e-179	96%	AAV68714.1
3-beta-hydroxysteroid dehydrogenase [Digitalis purpurea subsp. heywoodii]	496	496	99%	5e-177	95%	AAW31719.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Erythranthe guttata]	392	392	98%	4e-136	74%	XP_01283467.1.1
PREDICTED: short-chain dehydrogenase reductase 3b [Theobroma cacao]	371	371	98%	1e-127	70%	XP_01797570.1.1
short-chain dehydrogenase reductase 3b-like [Herrania umbratica]	371	371	98%	2e-127	70%	XP_02128083.4.1
short-chain dehydrogenase reductase 3b [Jatropha curcas]	368	368	99%	2e-126	69%	XP_01208380.7.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Gossypium arboreum]	368	368	98%	2e-126	69%	XP_01762951.4.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Gossypium hirsutum]	366	366	98%	2e-125	69%	XP_01670889.8.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Gossypium raimondii]	365	365	98%	2e-125	68%	XP_01249028.1.1
NAD(P)-binding Rossmann-fold superfamily protein [Theobroma cacao]	365	365	97%	4e-125	70%	EOX95389.1
unnamed protein product [Coffea canephora]	365	365	98%	6e-125	70%	CDP19818.1
short-chain dehydrogenase reductase 3b [Prunus persica]	363	363	98%	2e-124	70%	XP_02041598.2.1

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PREDICTED: short-chain dehydrogenase reductase 3b-like [Gossypium raimondii]	362	362	98%	6e-124	69%	XP_01248000 4.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Gossypium hirsutum]	362	362	98%	9e-124	69%	XP_01674374 7.1
short-chain dehydrogenase reductase 3b-like [Hevea brasiliensis]	361	361	98%	1e-123	68%	XP_02166444 6.1
short-chain dehydrogenase reductase 3b-like [Dorcoceras hygrometricum]	360	360	95%	3e-123	70%	KZV57595.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Gossypium arboreum]	360	360	98%	5e-123	69%	XP_01760517 9.1
hypothetical protein B456_007G119800 [Gossypium raimondii]	360	360	97%	1e-122	68%	KJB41674.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Daucus carota subsp. sativus]	358	358	96%	2e-122	67%	XP_01722073 5.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Populus euphratica]	358	358	98%	2e-122	67%	XP_01104060 3.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Juglans regia]	358	358	99%	2e-122	67%	XP_01885293 9.1
hypothetical protein SOVF_059940 [Spinacia oleracea]	358	358	98%	3e-122	68%	KNA19597.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Vitis vinifera]	357	357	98%	6e-122	66%	XP_00227294 2.2
short-chain dehydrogenase reductase 3b [Arachis ipaensis]	357	357	98%	6e-122	67%	XP_01620570 5.1
short-chain dehydrogenase reductase 3b-like [Manihot esculenta]	355	355	98%	2e-121	68%	XP_02163155 0.1
LOW QUALITY PROTEIN: short-chain dehydrogenase reductase 3b-like [Sesamum indicum]	355	355	97%	3e-121	70%	XP_02055031 2.1
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform X2 [Lupinus angustifolius]	355	355	98%	4e-121	66%	XP_01944067 1.1
short-chain dehydrogenase reductase 3b [Arachis duranensis]	355	355	98%	6e-121	66%	XP_01596884 5.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Fragaria vesca subsp. vesca]	354	354	98%	8e-121	67%	XP_01146703 1.1

Description	Max score	Total score	Query cover	E value	Ident	Accession
PREDICTED: short-chain dehydrogenase reductase 3b-like [Nelumbo nucifera]	354	354	98%	1e-120	66%	XP_010243159.1
hypothetical protein CDL15_Pgr009999 [Punica granatum]	353	353	98%	1e-120	66%	OWM80021.1
PREDICTED: short-chain dehydrogenase reductase 3b [Beta vulgaris subsp. vulgaris]	353	353	97%	2e-120	69%	XP_010679442.1
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform X1 [Lupinus angustifolius]	353	353	97%	2e-120	66%	XP_019440669.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Citrus sinensis]	352	352	96%	3e-120	67%	XP_006492460.1
hypothetical protein TSUD_343250 [Trifolium subterraneum]	352	352	98%	7e-120	64%	GAU11334.1
putative NAD(P)-binding Rossmann-fold superfamily protein [Helianthus annuus]	352	352	99%	8e-120	66%	OTF91591.1
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform X2 [Cicer arietinum]	352	352	98%	8e-120	65%	XP_004494457.1
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform X1 [Cicer arietinum]	352	352	98%	1e-119	65%	XP_004494456.1
hypothetical protein CISIN_1g046931mg [Citrus sinensis]	350	350	96%	2e-119	67%	KDO86849.1
PREDICTED: short-chain dehydrogenase reductase 3b [Eucalyptus grandis]	350	350	98%	2e-119	66%	XP_010038318.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Prunus mume]	350	350	98%	2e-119	68%	XP_008227892.1
Sex determination protein tasselseed-2 [Glycine soja]	350	350	98%	2e-119	64%	KHN14157.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Ziziphus jujuba]	350	350	99%	3e-119	65%	XP_015891764.1
hypothetical protein CICLE_v10023411mg [Citrus clementina]	350	350	99%	3e-119	65%	XP_006444587.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Prunus mume]	350	350	98%	3e-119	68%	XP_008227805.1
adh_short_C2 domain-containing protein [Cephalotus follicularis]	349	349	98%	5e-119	65%	GAV81370.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Vigna angularis]	349	349	98%	6e-119	64%	XP_017417820.1

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hypothetical protein PHAVU_001G216200g [Phaseolus vulgaris]	349	349	98%	7e-119	64%	XP_00716321_9.1
hypothetical protein DCAR_002926 [Daucus carota subsp. sativus]	349	349	95%	8e-119	67%	KZN10270.1
unknown [Glycine max]	349	349	98%	9e-119	63%	ACU22781.1
hypothetical protein B456_001G146400 [Gossypium raimondii]	348	348	98%	1e-118	68%	KJB06840.1
short-chain dehydrogenase reductase 3b-like [Cajanus cajan]	348	348	98%	1e-118	65%	XP_02021374_3.1
short-chain dehydrogenase reductase 3b-like [Glycine max]	348	348	98%	2e-118	63%	NP_00130435_9.1
hypothetical protein LR48_Vigan03g274800 [Vigna angularis]	348	348	99%	2e-118	64%	KOM39366.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Vigna radiata var. radiata]	348	348	98%	2e-118	64%	XP_01449542_4.1
short-chain dehydrogenase/reductase [Medicago truncatula]	347	347	98%	8e-118	65%	XP_00362602_7.1
short-chain dehydrogenase reductase 3b-like [Chenopodium quinoa]	346	346	98%	1e-117	66%	XP_02176864_8.1
PREDICTED: short-chain dehydrogenase reductase 3b [Ricinus communis]	345	345	99%	2e-117	65%	XP_01557232_2.1
hypothetical protein POPTR_0014s11070g [Populus trichocarpa]	347	347	96%	2e-117	66%	XP_00232095_3.2
PREDICTED: short-chain dehydrogenase reductase 3b [Glycine max]	345	345	97%	4e-117	64%	XP_00355456_8.1
short chain alcohol dehydrogenase, putative [Ricinus communis]	344	344	97%	6e-117	66%	EEF47199.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Ipomoea nil]	344	344	97%	8e-117	64%	XP_01916344_9.1
Short-chain dehydrogenase/reductase SDR [Corchorus olitorius]	343	343	98%	1e-116	68%	OMO82212.1
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform X1 [Cucumis sativus]	340	340	98%	2e-115	63%	XP_00413597_2.1

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short-chain dehydrogenase reductase 3b-like [Chenopodium quinoa]	340	340	98%	3e-115	68%	XP_02176986 2.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Pyrus x bretschneideri]	335	335	98%	1e-113	67%	XP_00936717 5.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Lupinus angustifolius]	335	335	98%	2e-113	62%	XP_01941828 6.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Cucumis melo]	335	335	98%	3e-113	64%	XP_01690266 4.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Nicotiana sylvestris]	334	334	99%	4e-113	65%	XP_00979398 3.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Cucumis sativus]	333	333	99%	1e-112	63%	XP_00413614 5.2
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform X2 [Cucumis sativus]	332	332	97%	5e-112	63%	XP_01165941 1.1
Short-chain dehydrogenase/reductase SDR [Macleaya cordata]	332	332	98%	6e-112	64%	OVA13550.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Nicotiana attenuata]	331	331	99%	9e-112	64%	XP_01924687 6.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Vitis vinifera]	330	330	98%	3e-111	64%	XP_01907651 2.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Nicotiana tomentosiformis]	328	328	99%	8e-111	64%	XP_00962056 4.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Pyrus x bretschneideri]	329	329	96%	8e-111	65%	XP_00936314 3.1
hypothetical protein TSUD_343210 [Trifolium subterraneum]	328	328	98%	9e-111	62%	GAU11330.1
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform XI [Malus domestica]	328	328	98%	1e-110	66%	XP_00834863 0.1
short-chain dehydrogenase reductase 3b [Arachis duranensis]	327	327	99%	6e-110	63%	XP_02098202 0.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Nicotiana attenuata]	326	326	98%	9e-110	64%	XP_01923913 2.1
short-chain dehydrogenase/reductase [Medicago truncatula]	326	326	98%	1e-109	61%	XP_00362602 6.1

Description	Max score	Total score	Query cover	E value	Ident	Accession
PREDICTED: short-chain dehydrogenase reductase 3b-like [Malus domestica]	325	325	98%	1e-109	66%	XP_008381460.1
short-chain dehydrogenase reductase 3b [Arachis ipaensis]	325	325	99%	1e-109	63%	XP_016205706.1
short-chain dehydrogenase reductase 3b [Nicotiana attenuata]	325	325	98%	2e-109	64%	OIT21250.1
PREDICTED: short-chain dehydrogenase reductase 3b-like isoform X2 [Malus domestica]	325	325	98%	3e-109	66%	XP_017181367.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Cucumis sativus]	324	324	98%	6e-109	62%	XP_004136143.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Capsicum annuum]	322	322	99%	2e-108	63%	XP_016557592.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Capsicum annuum]	321	321	99%	6e-108	62%	XP_016557577.1
hypothetical protein AALP_AA4G260500 [Arabis alpina]	321	321	98%	8e-108	62%	KFK37464.1
short-chain dehydrogenase reductase 3b [Amborella trichopoda]	320	320	98%	1e-107	63%	XP_006841570.2
PREDICTED: short-chain dehydrogenase reductase 3b-like [Malus domestica]	320	320	98%	1e-107	68%	XP_008343196.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Tarenaya hassleriana]	320	320	99%	1e-107	63%	XP_010523896.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Vigna angularis]	320	320	98%	2e-107	61%	XP_017417999.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Nicotiana sylvestris]	319	319	98%	3e-107	63%	XP_009782046.1
PREDICTED: short-chain dehydrogenase reductase 3b-like [Cucumis melo]	319	319	98%	5e-107	62%	XP_008461393.1