

**Table S10 TBLASTN comparisons of OBPs identified in the transcriptomes and those identified by Lombardo et al. (2017)**

Transcript	Name	Length (aa)	Transcript_Lombardo	Name Lombardo et al.	Length % (aa) identity	alignment length	e-value	bit-score	Comment
88094	AalbOBP1	143	AALF023075	AalbOBP1	235 94/97	119	3.93E-80	235	
89777	AalbOBP2	159	Ae2SigPSigP-245707_FR2_11-195	AalbOBP2	159 99/100	159	4.23E-115	322	
96031	AalbOBP3	143	Ae2SigPSigP-246894_FR3_61-234	AalbOBP3	143 99/99	143	7.82E-104	292	
88146	AalbOBP4	147	Ae2SigPSigP-245019_FR5_303-456	AalbOBP4	147 99/99	147	2.28E-96	273	
-	-	-	AALF026669	AalbOBP5	315 -	-	-	-	
-	-	-	AALF017938	AalbOBP7-N1	310 -	-	-	-	
4635	AalbOBP9	132	AALF024996	AalbOBP9	132 98/99	132	1.19E-95	270	
90263	AalbOBP10	140	AALF027078	AalbOBP10	140 98/99	140	1.24E-101	286	
88450	AalbOBP11	137	AALF007517	AalbOBP11	137 97/98	137	7.27E-97	274	
97431	AalbOBP12	132	AALF019174	AalbOBP12	132 100/100	132	1.08E-80	233	
88277	AalbOBP13	133	AALF019175	AalbOBP13	133 99/99	133	1.75E-95	270	
25065	AalbOBP15	136	AALF019178	AalbOBP15	136 100/100	136	1.62E-87	250	
-	-	-	AALF018393	AalbOBP16	270 -	-	-	-	
6031	AalbOBP17	138	Ae2SigPSigP-70660_FR2_3-125	AalbOBP17	92 93/98	92	2.22E-35	117	
98240	AalbOBP18	141	Ae2SigPSigP-221527_FR6_753-897	AalbOBP18	141 98/99	141	1.68E-91	261	
1010	AalbOBP19	125	AALF023074	AalbOBP19	93 99/100	77	2.80E-54	164	
51548	AalbOBP19-N1	142	AALF025127	-	142 98/99	142	1.33E-102	289	
88295	AalbOBP20/59	166	AALF005057	AalbOBP20/59	166 99/99	166	1.29E-110	311	
60064	AalbOBP21	56	AALF014342	AalbOBP21	246 100/100	56	2.78E-36	120	
2021	AalbOBP22	138	AALF014341	AalbOBP22	138 99/100	138	5.99E-89	254	
57665	AalbOBP26/23	101	AALF018601	AalbOBP26/23	237 100/100	101	1.38E-71	212	
10170	AalbOBP25/24	200	AALF018602	AalbOBP25/24	200 99/99	200	4.51E-117	330	
95920	AalbOBP27	139	Ae2SigPSigP-218581_FR4_17-171	AalbOBP27	139 98/98	139	3.72E-100	282	
-	-	-	AALF022644	AalbOBP28	334 -	-	-	-	
-	-	-	AALF022642	AalbOBP33	636 -	-	-	-	
88172	AalbOBP34	149	AALF028521	AalbOBP34	142 99/100	128	5.83E-80	232	
86836	AalbOBP35	131	AALF013191	AalbOBP35	131 100/100	131	6.00E-79	228	
91258	AalbOBP36	152	AALF009587	AalbOBP36	152 100/100	152	2.18E-115	322	
94240	AalbOBP37	149	Ae2SigPSigP-225473_FR6_9-169	AalbOBP37	149 98/99	149	7.65E-99	280	
90197	AalbOBP38	140	Ae2SigPSigP-224714_FR1_155-257	AalbOBP38	80 100/100	80	8.37E-56	168	
91445	AalbOBP39	146	AALF005090	AalbOBP39	183 98/98	127	1.38E-80	235	
-	-	-	AALF008889	AalbOBP40	291 -	-	-	-	
88422	AalbOBP63/42	157	Ae2SigPSigP-217188_FR2_96-312	AalbOBP63/42	193 100/100	157	9.78E-116	325	
-	-	-	AALF015687	AalbOBP44	278 -	-	-	-	
-	-	-	AALF013004	AalbOBP46	298 -	-	-	-	
88397	AalbOBP47	191	Ae2SigPSigP-237436_FR3_27-219	AalbOBP47	191 100/100	191	8.75E-129	359	
-	-	-	AALF018600	AalbOBP48	213 -	-	-	-	
-	-	-	AALF020568	AalbOBP49	354 -	-	-	-	
-	-	-	AALF020569	AalbOBP51	196 -	-	-	-	
-	-	-	AALF020570	AalbOBP54	185 -	-	-	-	
87394	AalbOBP55	151	AALF021480	AalbOBP55	151 100/100	151	3.99E-110	308	

88160	AalbOBP56	140	AALF026945	AalbOBP56	147	100/100	130	4.22E-96	273
-	-	-	AALF021771	AalbOBP57	133	-	-	-	-
-	-	-	AALF021668	AalbOBP58	273	-	-	-	-
92750	AalbOBP59-N1	155	AALF013539	-	129	97/98	116	2.17E-65	195
88453	AalbOBP60	122	AALF002302	AalbOBP60	145	99/100	106	2.37E-73	214
88196	AalbOBP62	193	AALF001353	AalbOBP62	149	100/100	75	8.27E-51	160
-	-	-	AALF019177	AalbOBP65	122	-	-	-	-
89129	AalbOBP69	181	Ae2SigPSigP-30328_FR1_5-140	AalbOBP69	127	97/99	127	4.89E-89	256
-	-	-	AALF020565	AalbOBP70	213	-	-	-	-
74008	AalbOBP72	156	AALF013104	AalbOBP72	179	100/100	155	1.87E-113	318
57651	AalbOBP73	166	Ae2SigPSigP-31227_FR4_1-172	AalbOBP73	168	99/100	166	5.75E-124	345
45154	AalbOBP73-N1	169	-	-	-	-	-	-	-
78299	AalbOBP74	90	Ae2SigPSigP-29640_FR2_1-211	AalbOBP74	192	99/99	90	1.09E-61	185
4806	AalbOBP75	193	AALF020567	AalbOBP75	193	96/99	193	7.58E-128	357
96930	AalbOBP76	133	Ae2SigPSigP-244899_FR6_5-155	AalbOBP76	133	98/100	133	1.10E-96	273
46119	AalbOBP77	120	AALF024997	AalbOBP77	151	98/99	119	3.50E-85	244
13742	AalbOBP78-N1	116	AALF008468	-	136	98/99	116	1.32E-84	242
-	-	-	AALF008469	AalbOBP78	135	-	-	-	-
-	-	-	AALF022738	AalbOBP79	154	-	-	-	-
-	-	-	AALF015707	AalbOBP80	152	-	-	-	-
45987	AalbOBP81	151	AALF007787	AalbOBP81	151	96/99	151	1.13E-110	310
92539	AalbOBP83	306	AALF018890	AalbOBP83	306	98/99	306	2.51E-128	367
-	-	-	AALF006399	AalbOBP89	353	-	-	-	-
-	-	-	AALF008134	AalbOBP90	201	-	-	-	-
-	-	-	AALF017937	AalbOBP97	307	-	-	-	-
-	-	-	AALF013138	AalbOBP98	310	-	-	-	-
-	-	-	AALF017970	AalbOBP100	285	-	-	-	-
-	-	-	AALF010900	AalbOBP101	293	-	-	-	-
-	-	-	AALF011068	AalbOBP102	301	-	-	-	-
-	-	-	AALF013003	AalbOBP103	296	-	-	-	-
-	-	-	AALF013136	AalbOBP104	316	-	-	-	-
-	-	-	AALF009317	AalbOBP105	305	-	-	-	-
-	-	-	AALF013134	AalbOBP106	306	-	-	-	-
-	-	-	AALF014081	AalbOBP107	306	-	-	-	-
-	-	-	AALF014080	AalbOBP108	278	-	-	-	-
-	-	-	AALF021669	AalbOBP110	268	-	-	-	-
-	-	-	AALF003679	AalbOBP111	338	-	-	-	-
-	-	-	AALF003184	AalbOBP111-N1	291	-	-	-	-
-	-	-	AALF017939	AalbOBP112	299	-	-	-	-
-	-	-	AALF000521	AalbOBP113	273	-	-	-	-
23731	AalbOBP-N1	197	Ae2SigPSigP-20809_FR1_15-226	-	197	100/100	197	2.86E-133	371
17964	AalbOBP-N2	103	-	-	-	-	-	-	-

**Table S11 TBLASTN comparisons of Ors identified in the transcriptomes and those identified by Lombardo et al. (2017)**

Transcript	Name	Length (aa)	Transcript_Lombardo	Name Lombardo et al.	Length (aa)	% identity	alignment length	e-value	bit-score	Comment
16280	AalbOR2	376	AALF011758	AalbOr2	395	95/95	395	0	753	
5943	AalbOR4	406	Ae2-239510	AalbOr4/5	239	97/99	239	3.80E-174	485	
82460	AalbOR6	401	AALF017217	AalbOr6	275	99/99	275	0	540	
88204	AalbOR7/ORCO	479	AALF000221	AalbOrco	464	99/100	464	0	902	
4707	AalbOR8	793	AALF006802	AalbOr8	1488	98/99	801	0	1440	
-	-	-	AALF007388	AalbOr9	347	-	-	-	-	
-	-	-	AALF004497	AalbOr9a	583	-	-	-	-	
8503	AalbOR10	375	AALF007898	AalbOr10	375	99/99	375	0	703	
95352	AalbOR11	420	Ae2-240598	AalbOr11	420	99/100	420	0	847	
83056	AalbOR13	389	AALF017037	AalbOr13	389	99/99	389	0	766	
9257	AalbOR15	390	AALF010978	AalbOr15	403	99/100	390	0	797	
92214	AalbOR19	400	AALF013368	AalbOr18/19	251	95/97	154	5.29E-103	305	
84246	AalbOR20	396	-	-	-	-	-	-	-	
47088	AalbOR21	396	-	-	-	-	-	-	-	
17244	AalbOR22/N1	385	AALF001943	AalbOr-N1	390	92/93	385	0	719	Identical except for an internal 33aa stretch
5704	AalbOR23	402	AALF018383	AalbOr23	349	99/99	335	0	660	
16397	AalbOR24	395	AALF021484	AalbOr24	263	99/99	263	0	509	
19286	AalbOR24-N1	180	-	-	-	-	-	-	-	
84055	AalbOR25	381	-	-	-	-	-	-	-	
85326	AalbOR26	401	Ae2-246982	AalbOr26	260	99/100	260	0	544	
80773	AalbOR27	139	AALF019852	AalbOr27	330	100/100	139	1.09E-100	291	
88595	AalbOR29	384	Ae2-261366	ND	383	99/99	383	0	712	
17821	AalbOR30	384	AALF020411	AalbOr30	384	83/92	384	0	632	
84635	AalbOR31	403	Ae2-241221	AalbOr31	353	98/99	332	0	662	
81229	AalbOR33	395	-	-	-	-	-	-	-	
-	-	-	AALF000550	AalbOr34	388	-	-	-	-	
-	-	-	AALF000551	AalbOr37	286	-	-	-	-	
4286	AalbOR39	406	AALF019769	AalbOr39	457	98/99	393	0	804	
10769	AalbOR42	391	Ae2SigPSigP-212053_FR3_1-374	AalbOr42	314	99/99	314	0	637	
80037	AalbOR42-N1	386	-	-	-	-	-	-	-	
15665	AalbOR44	385	Ae2SigPSigP-640_FR2_104-223	ND	?	100	100	3.00E-49	160	
5267	AalbOR45	381	-	-	-	-	-	-	-	
18518	AalbOR45-N1	207	AALF002781	ND	262	100/100	111	1.05E-61	192	
-	-	-	AALF013594	AalbOr46	384	-	-	-	-	
-	-	ND	AALF007975	AalbOr47	-	-	-	-	-	Sequence not available in Lombardo et al.
-	-	-	AALF019854	AalbOr47-N1	114	-	-	-	-	
97870	AalbOR47-N2	383	Ae2-241229	ND	287	100/100	286	0	574	
56511	AalbOR47-N3	170	-	-	-	-	-	-	-	
-	-	-	AALF015303	AalbOr48	397	-	-	-	-	
-	-	-	AALF025037	AalbOr49	401	-	-	-	-	
-	-	-	AALF007974	AalbOr50	-	-	-	-	-	

7041	AalbOR50-N1	257	AALF019855	AalbOr50-N1	365	94/96	161	1.00E-107	316
5118	AalbOR52	421	Ae2SigPSigP-256023_FR6_86-173	AalbOr52	82	100/100	82	8.00E-56	178
70366	AalbOR55	395	Ae2-89582	AalbOr55	199	99/100	199	2.45E-149	420
-	-	-	AALF012995	AalbOr58	398	-	-	-	-
1114	AalbOR59	250	AALF000962	AalbOr59	415	98/99	250	0	514
-	-	-	AALF003917	AalbOr60	418	-	-	-	-
-	-	-	AALF018937	AalbOr61	254	-	-	-	-
-	-	-	AALF018936	AalbOr61-N1	186	-	-	-	-
-	-	-	AALF003919	AalbOr61-N2	421	-	-	-	-
-	-	-	AALF003920	AalbOr61-N3	376	-	-	-	-
69237	AalbOR62	375	AALF000278	AalbOr62	345	96/98	345	0	678
4058	AalbOR63	286	AALF012784	AalbOr63	356	100/100	246	1.78E-163	457
-	-	ND	AALF026720	AalbOr63-N1	-	-	-	-	Sequence not available in Lombardo et al.
89176	AalbOR63-N2	404	Ae2SigPSigP-261786_FR6_1-222	ND	210	98/99	210	1.29E-147	416
696	AalbOR66	389	-	-	-	-	-	-	-
45285	AalbOR67	60	AALF014651	AalbOr67	383	100/100	60	6.21E-38	128
47052	AalbOR69	385	AALF019062	AalbOr69	342	89/89	385	0	673
73112	AalbOR70	199	Ae2SigPSigP-43314_FR6_155-284	AalbOR70	110	100/100	99	2.66E-45	145
10463	AalbOR70-N1	385	AALF019061	AalbOr70-N1	320	100/100	254	0	524
81174	AalbOR70-N2	385	-	-	-	-	-	-	-
13202	AalbOR71	422	AALF008906	AalbOr71	377	89/89	422	0	687
6552	AalbOR72	412	AALF004843	AalbOr72	413	93/96	412	0	794
5361	AalbOR72-N1	358	Ae2-230246	AalbOr72-N1	233	91/96	233	1.96E-160	448
-	-	-	AALF012994	AalbOr74	401	-	-	-	-
69694	AalbOR75	96	AALF000084	AalbOr75	703	100/100	96	5.32E-62	199
6097	AalbOR76	225	AALF019149	AalbOr76	381	96/99	225	3.32E-161	450
-	-	-	AALF000088	AalbOr78	400	-	-	-	-
9669	AalbOR79	395	AALF019151	AalbOr79	395	98/99	395	0	803
3076	AalbOR80	422	Ae2-239710	AalbOr80	273	99/99	273	0	538
97462	AalbOR81	423	Ae2SigPSigP-1103_FR4_35-441	AalbOr81	350	97/98	350	0	667
-	-	-	AALF005181	AalbOr81-N1	204	-	-	-	-
-	-	-	AALF027084	AalbOr81-N2	401	-	-	-	-
18076	AalbOR83c	353	AALF012785	AalbOr83c	401	98/99	353	0	666
83353	AalbOR84	410	Ae2SigPSigP-208879_FR6_150-233	AalbOr84	74	100/100	74	3.76E-34	121
89654	AalbOR85	416	AALF019254	AalbOr85	416	99/99	416	0	778
89563	AalbOR87	424	-	-	-	-	-	-	-
445	AalbOR87-N1	353	-	-	-	-	-	-	-
89562	AalbOR87-N2	288	-	-	-	-	-	-	-
92688	AalbOR88	408	Ae2-216959	AalbOr88	308	99/99	308	0	591
47016	AalbOR91	102	Ae2SigPSigP-221634_FR2_1-400	AalbOr91	362	99/100	102	3.23E-69	210
-	-	-	AALF010815	AalbOr92a	387	-	-	-	-
84524	AalbOR94	123	Ae2SigPSigP-73945_FR4_1-319	AalbOr94	281	98/99	123	2.64E-85	249
53071	AalbOR94-N1	172	-	-	-	-	-	-	-
-	-	-	Ae2SigPSigP-93163_FR5_1-272	AalbOr95	261	-	-	-	-
56211	AalbOR97	101	Ae2-5507	AalbOr97	391	97/97	101	2.04E-63	196
50344	AalbOR99	283	AALF017530	AalbOr99	382	99/99	283	1.33E-176	491

96847	AalbOR100	415	Ae2SigPSigP-40415_FR4_1-122	ND	86	97/97	86	1.00E-51	167
26945	AalbOR101	210	-	-	-	-	-	-	-
9171	AalbOR102	363	-	-	-	-	-	-	-
			Ae2-229490	AalbOr104	234				
96630	AalbOR104-N1	405	Ae2-229489	ND	249	98/99	249	0.00E+00	506
17596	AalbOR109	150	-	-	-	-	-	-	-
47815	AalbOR110	244	-	-	-	-	-	-	-
97176	AalbOR111	421	AALF016854	AalbOr111	379	98/99	372	0	766
97175	AalbOR111-N1	420	Ae2-259585	AalbOr111-N1	337	99/99	337	0	698
82645	AalbOR113	418	AALF027387	AalbOr113	375	99/99	375	0	770
-	-	-	AALF027386	AalbOr113-N1	729	-	-	-	-
84373	AalbOR113-N2	157	AALF027388	AalbOr113-N2	463	92/97	157	4.88E-103	302
5235	AalbOR115	230	Ae2-171283	AalbOr115	295	96/97	119	1.14E-79	240
-	-	-	AALF010412	AalbOr117	327	-	-	-	-
45911	AalbOR117-N1	169	AALF010302	AalbOr117-N1	321	99/100	167	6.42E-123	348
15754	AalbOR117-N2	415	-	-	-	-	-	-	-
7651	AalbOR117-N3	160	-	-	-	-	-	-	-
56571	AalbOR117-N4	417	-	-	-	-	-	-	-
44012	-	70	Ae2-15544	AalbOr119	357	93/94	70	3.00E-36	124
53133	AalbOR121	421	-	-	-	-	-	-	-
16771	AalbOR122	406	-	-	-	-	-	-	-
71045	AalbOR123	376	-	-	-	-	-	-	-
84576	AalbOR125	310	AALF008015	AalbOr125	382	98/99	310	0	639
-	-	-	AALF012996	AalbOr-N2	377	-	-	-	-
41443	AalbOR-N3	58	AALF014266	AalbOr-N3	354	100/100	58	4.49E-34	117
-	-	-	AALF004018	AalbOr-N4	372	-	-	-	-
86662	AalbOR-N5	416	AALF000712	ND	416	96/98	416	0	798
401	AalbOR-N6	413	-	-	-	-	-	-	-
3853	AalbOR-N7	414	Ae2SigPSigP-261748_FR3_290-425	ND	98	100/100	98	2.61E-66	206