

Table 1. List of *OSR Family* Genes Identified in Brassica crops

Gene Name in Brassica crops	Gene ID in Brassica crops	Gene name in Arabidopsis	Gene ID in Arabidopsis	Chromosome	Position (bp)	Protein Length (aa)	Protein Molecular Weight (kDa)	Protein Isoelectric Point (pI)	Protein Subcellular Localization
BraA07g024870.3.5C	BraA7.ARGOS	AT3G59900	AtARGOS	A07	18965817~18966605	197	22349.43	11.26	Chloroplast
BraA09g051680.3.5C	BraA9.ARGOS	AT3G59900	AtARGOS	A09	37085062~37086293	120	13641.93	9.22	Nucleus
BolC06g025290.2J	BolC6.ARGOS	AT3G59900	AtARGOS	C06	28020630~28021037	135	15277.22	11.18	Chloroplast
BolC08g043300.2J	BolC8.ARGOS	AT3G59900	AtARGOS	C08	41965566~41968950	263	30336.47	9.56	Chloroplast
BnaA07g18560D	BnaA7.ARGOS	AT3G59900	AtARGOS	A07	15100185~15100595	136	15353.32	10.95	Chloroplast
BnaA09g38160D	BnaA9.ARGOS	AT3G59900	AtARGOS	A09	36006742~36007062	106	11844.43	10.01	Cell membrane. Nucleus
BnaC06g17590D	BnaC6.ARGOS	AT3G59900	AtARGOS	C06	26087493~26088042	135	15277.22	11.18	Cell membrane
BnaC08g08630D	BnaC8.ARGOS	AT3G59900	AtARGOS	C08	32460817~32461137	106	11889.50	10.21	Cell membrane. Nucleus
BraA03g023330.3.5C	BraA3.ARL1	AT2G44080	AtARL1	A03	11146728~11147361	137	15504.24	9.86	Cell membrane. Nucleus
BraA04g032420.3.5C	BraA4.ARL1	AT2G44080	AtARL1	A04	21299687~21300348	133	14860.70	10.54	Nucleus
BraA05g004060.3.5C	BraA5.ARL1	AT2G44080	AtARL1	A05	2076211~2076540	109	12059.46	9.99	Cell membrane
BolC03g026820.2J	BolC3.ARL1	AT2G44080	AtARL1	C03	16437517~16438340	183	20868.71	9.27	Cell membrane
BolC04g005320.2J	BolC4.ARL1-1	AT2G44080	AtARL1	C04	4224002~4224466	110	12289.62	9.63	Cell membrane
BolC04g066760.2J	BolC4.ARL1-2	AT2G44080	AtARL1	C04	64208620~64209027	135	15008.82	10.83	Nucleus
BnaA03g20650D	BnaA3.ARL1	AT2G44080	AtARL1	A03	14070178~14070868	134	15082.86	9.59	Cell membrane
BnaA04g25550D	BnaA4.ARL1	AT2G44080	AtARL1	A04	23106689~23107197	133	14860.70	10.54	Nucleus
BnaA05g03720D	BnaA5.ARL1	AT2G44080	AtARL1	A05	2359500~2359829	109	12089.49	9.99	Cell membrane
BnaC04g03310D	BnaC4.ARL1-1	AT2G44080	AtARL1	C04	5581141~5581470	109	12075.42	9.87	Cell membrane
BnaC04g49440D	BnaC4.ARL1-2	AT2G44080	AtARL1	C04	69547718~69548125	135	15034.85	10.54	Nucleus
BraA04g030320.3.5C	BraA4.ARL2	AT2G41230	AtARL2	A04	20229815~20230081	88	9680.78	8.36	Chloroplast
BnaA03g57690D	BnaA3.ARL2	AT2G41230	AtARL2	A03	13524554~13524829	91	10120.39	6.70	Chloroplast
BnaA04g23760D	BnaA4.ARL2	AT2G41230	AtARL2	A04	33833758~33834024	88	9680.78	8.36	Chloroplast
BnaA05g02090D	BnaA5.ARL2	AT2G41230	AtARL2	A05	1422953~1423219	88	9542.75	6.52	Chloroplast. Nucleus.
BnaC04g47540D	BnaC4.ARL2	AT2G41230	AtARL2	C04	68199381~68199647	88	9680.78	8.36	Chloroplast
BraA03g021910.3.5C	BraA03ARL3	AT2G41225	AtARL3	A03	10471879~10473537	153	17218.39	9.19	Cell membrane
BnaA05g02080D	BnaA05ARL3-1	AT2G41225	AtARL3	A05	1414050~1414235	61	6618.31	3.8	Chloroplast. Nucleus.
BnaA04g23750D	BnaA04ARL3-2	AT2G41225	AtARL3	A04	33852503~33852682	59	6455.15	5.04	Chloroplast
BnaA03g19390D	BnaA03ARL3-3	AT2G41225	AtARL3	A03	13518248~13518451	67	7149.84	4.21	Cell membrane. Chloroplast. Nucleus

BnaC04g01730D	BnC04ARL3-4	AT2G41225	AtARL3	C04	2428326~2428883	88	9895.53	5.51	Nucleus
BnaC04g47530D	BnC04ARL3-5	AT2G41225	AtARL3	C04	68186785~68186964	59	6469.17	5.04	Chloroplast
BnaC03g23230D	BnC03ARL3-6	AT2G41225	AtARL3	C03	23893373~23893660	95	10514.81	8.47	Cell membrane