Quantitative trait loci for light sensitivity, body weight, body size, and morphological eye parameters in the bumblebee, *Bombus terrestris*

Kevin Maebe[1], Ivan Meeus[1], Jan De Riek[2], Guy Smagghe[1,*]

S1_Table: Characteristics of the microsatellite markers used. From each SSR marker we present the forward and reverse primer sequences, GenBank accession number, annealing temperature (*Ta*), the observed size range of the PCR product, the location (LG) and the original reference.

Marker	Accession number (GenBank)	LG *B.t.*	Forward primer sequence	Reverse primer sequence	*Ta*	Range	Source
0007_47n22	FQ377670	B11	GGTTATGATTGCACACTGTTT	GCACATTAAATTATTGCGTACA	60	152-158	Stolle et al., 2011
0043_71h15	FQ377672	B03	AATTTATGCGAAGATGATGTTA	TTAGTAACTGACTGCTGCTACG	60	164	Stolle et al., 2011
0053_71f10	FQ377673	B02	GTAAAGCGGAGAAACAAGATAG	CTTCTTCCACCTCTCATTTG	60	168	Stolle et al., 2011
0062_62f17	FQ377675	B02	TAAAATTGCTGGCTGGAAGCAT	CAGAGAACAACATCGTGGCAAA	60	197-213	Stolle et al., 2011
0071_59g6	FQ377677	B13	TACGATTCACCGATCTTAAATA	TTAATCGGAAGACACTGGAC	60	187-191	Stolle et al., 2011
0078_59o4	FQ377680	B14	AATCTCGTAATTCCAAGCTTAC	GATTTACTTGGGCAGACTTTAG	60	150-156	Stolle et al., 2011
0083_47g5	FQ377681	B13	TCTTAATCGATTCAAACATCCT	GATGAGTGTCATCCTTCTGAAT	60	136-148	Stolle et al., 2011
0103_38m23	FQ377683	B05	GTATCGCGATTGGTAATTATG	ACATCTTTGTATCTTCGAATCC	60	187	Stolle et al., 2011
0141_44j1	FQ377689	B02	CTAGGCCAGAATAGAGTCGTC	AGATTCGAGTGCTTTCCTCT	60	137-157	Stolle et al., 2011
0152_56e6	FQ377691	B09	GAACCTGTGTTCCTCTCGTA	TCTACTACACTTTGTCCGTTGA	60	146-148	Stolle et al., 2011
0162_69a8	FQ377693	B12	GAAGGAGTTGAATCATTAGGTC	TTCGTAGGGTGATAGAGGTG	60	155-157	Stolle et al., 2011
0172_44e21	FQ377695	B04	ATAATGCAGTTCCTCGAGTCT	GCTGTATTGGGTAGAAGAAAGA	60	148-150	Stolle et al., 2011
0177_44p18	FQ377696	B03	TTGACGATATTCTCTCACGATA	GCGTTTCTATCAGAAGCTACAC	60	169-172	Stolle et al., 2011
0180_50k19	FQ377697	B17	CCTTCCTGGAGGTAACCTTCTT	TTCATACGCGAGGTATGTGGAG	60	216	Stolle et al., 2011
0187_69g1	FQ377698	B18	TCTTGTATTAACCCAACGTACA	GCAGCTAACGGATCTTATTCTA	60	161-169	Stolle et al., 2011
0195_69j13	FQ377699	B01	CTGAACAATAATTACCGACAGA	GACAATTTCGATTACGAGACTT	60	150-154	Stolle et al., 2011
0196_69p16	FQ377700	B01	CGCTGAATCTAGACGCTATAA	ATCAGTGGCAATACATGTAAAC	60	188-194	Stolle et al., 2011
0198_69f24	FQ377701	B01	AAATAGCTCGACACTGAGAGAC	ATCCATAAGCGTGTAAGAAAGT	60	164-168	Stolle et al., 2011
0207_63e15	FQ377704	B03	TGTCTTTACGTCCATGTTACAC	CGTTCTCTATATACGGCAAGTT	60	193-197	Stolle et al., 2011
0216_63a9	FQ377705	B05	TCATAACGTTTCACATCTTGAC	GTCTAAAGTTCTATGCCACGTT	55	175-177	Stolle et al., 2011

Marker	Accession number (GenBank)	LG *B.t.*	Forward primer sequence	Reverse primer sequence	*Ta*	Range	Source
0221_63h9	FQ377706	B03	GTTATCGTATTTACACCGGAAC	TTTCTTCGCAAGATAGAGAGAG	55	154-158	Stolle et al., 2011
0222_63d21	FQ377707	B15	TCAATCTTCGATCTACGTAACA	AAATACGTGGCATTAACTCG	60	165-169	Stolle et al., 2011
0232_81d20	FQ377710	B13	GCGAGTCTGTACAATGAATATG	ACGGAACAACGAACAACTTA	60	171-177	Stolle et al., 2011
0242_81d21	FQ377711	B09	CCTCGATATCACCATAGGAA	ACAGATGTATCCGTGCAGTT	60	183-187	Stolle et al., 2011
0244_81l8	FQ377712	B13	AGAAGCTACAGTTGATGAGGAT	GAGTTCTCTGCTTGTCTGATG	60	142-150	Stolle et al., 2011
0255_16m20	FQ377713	B16	TCGTAAAGCTGAGAGCTATAAA	AAGATCGAGAGAACAGGATTAG	60	155-161	Stolle et al., 2011
0266_60m24	FQ377714	B10	AACGTTTCGAGAATAATAAAGC	AGGTAAAATGAACGAGACAAAG	60	213	Stolle et al., 2011
0268_60h13	FQ377715	B05	TCTGTAAACACAAGAGAAGTTCA	TCTGACGGTAGGACAATACTAA	60	210-203	Stolle et al., 2011
0275_90o12	FQ377716	B04	AGGACATCTGGTCTTAATGAAA	TACGCAGATCGTTGTTATACAT	60	163-165	Stolle et al., 2011
0281_20d1	FQ377719	B06	GTAGCCTTCTCTATGCCATTT	AGAACGGGTACGTGTAAATAGT	60	131-135	Stolle et al., 2011
0289_60l4	FQ377722	B10	TGTTGTATTGTGAATGTACACG	GCATGTAAACCAGACTTAATTG	54	162-164	Stolle et al., 2011
0291_60p14	FQ377723	B03	TCTGCTACGTTTAATTACTGGA	ACCCTCTTACCTATTTGGTGTA	54	196	Stolle et al., 2011
0292_60b14	FQ377724	B03	GCGTACGATATAAGGAAAGAGA	GTGAGTTCGAGCAATAATCC	55	153-167	Stolle et al., 2011
0294_10o4	FQ377725	B09	AGTACGATAAAGCCAGGAAAG	TGTATGCCTATTGTACGAGTGT	55	169-177	Stolle et al., 2011
0303_10b14	FQ377727	B02	AAAGTGTCATCGACCAGAAG	CTCGTTCGTTTAATTAGTCGTC	60	164	Stolle et al., 2011
0304_9i13	FQ377728	B04	GTATGAGTGAGTGATGTGCAAG	CCCTTCATCTCTGAACAATATC	55	154-160	Stolle et al., 2011
0320_15c24	FQ377729	B12	TTTCATTGTTTCCCTATTTCA	CCTTACGTACTTCCGTTATCTC	55	162	Stolle et al., 2011
0321_15f5	FQ377730	B17	ATGACAAAATATAGCACTGTATGTGT	GCAGAACGAACAAGATGTTCAA	60	210-212	Stolle et al., 2011
0336_1l24	FQ377734	B13	ACTTAGACACGCCTCAATTATC	GTTGAACCTTTGTTGAGAAGAT	60	114-136	Stolle et al., 2011
0338_2i5	FQ377735	B07	TCGTACTTCGTTCATCTAATCA	GGAATTTGTAATTTCGTTTGTT	54	172-174	Stolle et al., 2011
0357_2o10	FQ377736	B05	CGACAGTTGTTATTACGATGAA	CCCTTTAAGCAGACGTATTTAG	60	163-171	Stolle et al., 2011
0360_2n11	FQ377737	B01	ATAATTCCCGAACGAATGTC	TAACGTTATCCGGGTACAAA	55	231-237	Stolle et al., 2011
0365_7n6	FQ377738	B03	GCCATCAATAGATCAAAGAAAT	CTCCTCGGTCTGTTGTTTAT	60	138-140	Stolle et al., 2011
0370_12o14	FQ377739	B11	GGAACACGTATTACACAAAGTCT	CGAGAGACAGAGAGAAAGAAAG	54	221-225	Stolle et al., 2011
0374_12n22	FQ377741	B09	CCAGAGTGAGAAAGAGAGAGAG	CATAAATGTCCCACCTACATC	60	133	Stolle et al., 2011
0379_5i10	FQ377743	B07	AGAGAGAAAATCGAGGAAAAG	CGCAAAGTATTGCATAAATAAG	54	201-205	Stolle et al., 2011
0382_5e22	FQ377744	B11	GATAGAAACGACCAGGCTTAT	GGAACGAGTAACAAGGTAGAGA	60	167-169	Stolle et al., 2011
0392_16e2	FQ377746	B09	AATTATCATCGCGTAGGTACA	GTAAGCGTTTACACGAACAAC	60	183	Stolle et al., 2011

Marker	Accession number (GenBank)	LG *B.t.*	Forward primer sequence	Reverse primer sequence	*Ta*	Range	Source
0403_13g6	FQ377748	B07	ATTTACTGCTCGATACTTTCGT	ATCGAGTTCTTATTTCATCCTG	60	175-179	Stolle et al., 2011
0428_13l21	FQ377750	B02	AAGGTAACAGAAGAGACGATTG	GTCATTGTCAAGAGGTGGAG	60	154-156	Stolle et al., 2011
0466_5f11	FQ377753	B14	GTGTGTGCAAATAGCTACAGAT	GTCCCTTTACCCTTTAGATACC	60	163-171	Stolle et al., 2011
0482_3k3	FQ377756	B13	ATGGCAAGTGTTCTCGTACT	ATCTATTTACCAGCGAAGCTC	54	204	Stolle et al., 2011
0487_3f11	FQ377758	B12	CACCTTACAATATAGGTCAGTTGT	GTCTAGGTGCTCAATGGATATT	55	144-152	Stolle et al., 2011
0503_3m14	FQ377760	B13	ACAACTAATTTGCTGCCTCTAC	TAGGATCATTAAACGAGTCTCC	60	167-183	Stolle et al., 2011
0526_4c10	FQ377761	B07	TCACGTTGTGTCAACTGTAAA	AGATTCAAGACGAAAGAATTTG	55	162-176	Stolle et al., 2011
0533_15c9	FQ377762	B07	CGAAGAACATAAGCAGAGGTAG	CTTCCTCTTCGGTTCTCATAC	60	160	Stolle et al., 2011
0535_15i17	FQ377763	B05	GTCGCATTAAATACAAGCTACA	TTTCAAAGTGATATACAGGGAAG	55	139-157	Stolle et al., 2011
0543_6o7	FQ377764	B12	AGCTAAATTAACCAACACCAAT	GGCAGAGGAATATGATACAAGT	55	163-181	Stolle et al., 2011
0553_18c8	FQ377768	B09	AGGATTCCATTTCGAGAATAA	CAATGCACTACAAAGTTAGTTCC	54	236-242	Stolle et al., 2011
0566_20o5	FQ377772	B03	TGTTAATCGTCTGTCACCTTT	GTAGCAAGAAGTAGGCAAATG	55	180	Stolle et al., 2011
0576_20n23	FQ377773	B08	CCGTGCTATACTCACATTTCTA	ACGATCTATGTACCACGATTCT	55	166-168	Stolle et al., 2011
0579_22m16	FQ377774	B10	GCCAGGTACATATATCCCTATT	TTCCATATTTGCTGTCACTTT	60	186-202	Stolle et al., 2011
0583_22l4	FQ377776	B15	CGAATGAAATTAGCTCCACTAC	CAATTTCTTTCTCTTACGAAGC	60	126-140	Stolle et al., 2011
0594_19n18	FQ377778	B15	TTCAGAAGCATTCTCGAATTA	ATACGAAGAGAAATAGGGTACG	60	208-212	Stolle et al., 2011
0606_19m4	FQ377781	B02	ATAACGAGGAGAGTGGTAACTG	GTCTCCTAGCATCTTCTTTGTAA	60	235	Stolle et al., 2011
0607_19k14	FQ377782	B07	TCCATATGAAGATCACAGAGAA	TTAATCAGTGCATGCTTAGTGT	60	154-160	Stolle et al., 2011
0608_19h1	FQ377783	B17	GATCGATAAACGTCCAACTTAC	ATGGATTCTATCATCAATTCGT	60	209-211	Stolle et al., 2011
0613_19h23	FQ377784	B12	TTTATTCTACGCAAATGGTG	TATCAATATCAGTATCGGCATC	60	190-222	Stolle et al., 2011
0614_19d6	FQ377785	B08	AAGTAGAACGGATACAGAAACG	ACTCCAGTATGAGATGGAAGTC	60	186-196	Stolle et al., 2011
0627_20n22	FQ377789	B08	CGTGTAAACACACATAAAGAGC	GTTTCGTCTTCGCTCTAGATAC	60	176-192	Stolle et al., 2011
0631_34k4	FQ377790	B05	ATAACCGAAAGACAAAGTTCAC	GCTCTTGCTCTTTCTTTATCTT	60	160	Stolle et al., 2011
0632_34i8	FQ377791	B03	TTCCCGTATTATGTAACTCAGA	GCTTGGAGAAGATAGTTAAACG	60	189	Stolle et al., 2011
0636_34m4	FQ377792	B14	AGTGAAAGTTGACGAAGAACA	CCGAGATCTCTCTCTGTACTGT	60	145-151	Stolle et al., 2011
0644_83i19	FQ377796	B06	CATTGTCGAGTGAATATCGAG	TAGAAATCATTGCAACAGAGAA	60	166-168	Stolle et al., 2011
0646_83e8	FQ377798	B04	GTTTCTCTCTTCCCTCTTTCC	AAGATGCAGAGGAAAGTAAATG	60	155-165	Stolle et al., 2011
0655_82m17	FQ377800	B14	TACATCTACTCGTCTCCCTCTC	ACGGATAGACAAACAGAGAATC	60	134-136	Stolle et al., 2011

Marker	Accession number (GenBank)	LG *B.t.*	Forward primer sequence	Reverse primer sequence	*Ta*	Range	Source
0669_84l15	FQ377804	B09	TGCTTGACGAATATGAAATG	AAACAGATCGAGAGAAAGAGAG	60	170-180	Stolle et al., 2011
0686_86i9	FQ377807	B14	AAAGATAGAAGAAGGAAGCACA	TCGAACTATCCACCAGCTATAC	60	130-136	Stolle et al., 2011
0712_84o11	FQ377811	B06	TTTCGATGGTGGTTTGTACT	CTTGCCGATATATTACCTCTTC	60	198-210	Stolle et al., 2011
0725_82m14	FQ377814	B06	TCTATCAAACACGTAAAGCGTA	ATTTATGACCTCTCCTCTCACA	60	161-195	Stolle et al., 2011
0731_75c7	FQ377815	B09	GTGTACAGGCATACAGAAAGTG	GAAAGAGGAAGAGAGAAATCAA	60	181-185	Stolle et al., 2011
0742_75d18	FQ377818	B05	ACAAAGTGGTGCCATATTTATT	AGATACTGTGACCTAAGGGAAA	60	170-174	Stolle et al., 2011
0745_75i17	FQ377819	B13	GAATACACATGTCTCTGGTTCA	GAGAGTCGATCTTGTGAGAGAT	60	168	Stolle et al., 2011
0751_11c2	FQ377820	B16	CTTCAACGTCCATCCTGTATC	CCATCTTTTTCACCCTTGTATATAC	60	193-199	Stolle et al., 2011
0752_11m6	FQ377821	B10	AAATTAACACCAGCGGTTCT	AACTTTCTAAGCGTGTGCAG	60	163-175	Stolle et al., 2011
0774_1a20	FQ377826	B14	CTCCCTCTCTCTCTTTCTCTTT	CCCATATCAGTGACAAAGAAC	54	175-189	Stolle et al., 2011
0777_1j15	FQ377827	B10	TGCACTCATAGAATGAGAAAGA	GGATTTGTGGACGTTAATTG	55	152-166	Stolle et al., 2011
0795_67k24	FQ377830	B03	GAATTCCCAGAGAACAATTTC	TAAATTTACGAGTTTGCACAAG	60	161-169	Stolle et al., 2011
0801_67f8	FQ377832	B01	ATACTGTACGCGCATGTAATAA	TAATTTCTTCTCCTCGTTTCTC	55	167-195	Stolle et al., 2011
0803_67i16	FQ377833	B10	CCAGGTAAAGGTAACAAATCAC	GTGTTAGGGACACGTCAAGT	60	172	Stolle et al., 2011
0810_65a23	FQ377835	B06	TTAACAAATCCGAATTTAAAGG	GATAGTGGTTGCTTGTCATCTT	55	136-140	Stolle et al., 2011
0811_65m2	FQ377836	B08	TACAACTTGACGAGGAAATAGG	TTAAGCGAGCCCTATACTTATG	60	180-188	Stolle et al., 2011
0867_70k14	FQ377846	B12	ATATTACATTCCTGGTGACCTC	CTACATTCTTTCTGTTCCCTGT	60	177-181	Stolle et al., 2011
0869_70d5	FQ377847	B08	ATCTGATATCTATGCGCTCTTT	AAGCAGATGGGTTAAGTGTAGT	60	163-175	Stolle et al., 2011
0885_52p13	FQ377850	B02	TTCATACTCTTTCACAGCCTCT	AATGACGAGATGAGACTGAAAT	60	160-164	Stolle et al., 2011
0887_52l8	FQ377851	B09	GGCGAGTGTAACGTTGTATTT	GATATTACGCTCTGGAACCAA	60	187-191	Stolle et al., 2011
0904_31d21	FQ377854	B14	TTAAACCGAGGAGAGAGATTAC	GAGAAGAGACGTTTGAGAGAAC	60	204-212	Stolle et al., 2011
0916_31f17	FQ377858	B06	CCCATCAAATTTAACTGTTCTT	GCGAGTCATTACTGTCTCTCTT	60	170	Stolle et al., 2011
0917_31j16	FQ377859	B16	GTGTGGAAGAGACGAGATAGAT	CTTCTTCGTCACGTTTACTCTC	60	188-204	Stolle et al., 2011
0919_66k13	FQ377861	B01	TAGACCGATTTGTTACTGATTG	CATGCTGTTATGGTATTTCTGA	60	164	Stolle et al., 2011
0930_40o1	FQ377864	B11	GCTGAAAGCTCGACTTCTAC	AAATTTCTCACTGCTAAGAGGA	60	157-177	Stolle et al., 2011
0939_33h17	FQ377865	B01	GAACACAGCGAGAAAGAGAG	CATTATCGTGTGAACTTGGAC	60	152-174	Stolle et al., 2011
0940_33f14	FQ377866	B02	AGTGGAAATCTCACACATGC	AGGAGTTTCGTCGTTTCTTT	60	175-177	Stolle et al., 2011
0942_23k3	FQ377867	B06	TCTCATTTCTCTCCTTCTTCC	ATACAAGAAACGAGCCAGATAC	60	223-225	Stolle et al., 2011

Marker	Accession number (GenBank)	LG *B.t.*	Forward primer sequence	Reverse primer sequence	*Ta*	Range	Source
0950_23a2	FQ377870	B18	CGTACTAAACGGTGTATCGTC	GTAATTGAGCTCTCCTGTGG	60	182	Stolle et al., 2011
0956_26c17	FQ377871	B02	TCTCTTGCTTCTCGTTCTACTT	GGCTCTTAAACCAGACAGTTT	60	173-175	Stolle et al., 2011
Apis_UN075	AADG05004561	B06	GTCGTCGCATGAAAGGCC	GCAACCTCGTGCCCAGAT	0	0	Solignac et al., 2007
B118		B03	CCTAAGTCGCTATATCTTCG	GAAACACGTATCTACATCTACAG	57	240	Estoup et al., (1993; 1995)
BL02		B01	GAACAGTGAGAGCGAGGAACAGAG	TTGCCACGTATATCCGAGCGAACC	52	163-171	Reber-Funk et al., (2006)
BL05		B07	CGTTCAACATTAGATGTAGAGTACC	CGGACACAAGTAATAAGATAGG	50	176-178	Reber-Funk et al., (2006)
BL13		B15	CGAATGTTGGGATTTTCGTG	GCGAGTACGTGTACGTGTTCTATG	53	205-217	Reber-Funk et al., (2006)
BL16		B13	CGTCCTCTCCAATGTGTGACTC	GGATCGGTTTAACAACGAAGTC	48	124-140	Reber-Funk et al., (2006)
Boro115	HQ682231	B06	AGGAACCGAGCGATAGAACCAC	GCTTTGCCTTTCCATCTTGCTG	47	175-183	Stolle et al., 2011
BT02		B11	AGGAACCGAGCGATAGAACCAC	GCTTTGCCTTTCCATCTTGCTG	53	175-183	Reber-Funk et al., (2006)
BT05		B02	TTTCCTATGCCGAACGTCACC	CCCAGATAAAAGACCGCCTCTAGTC	53	194-220	Reber-Funk et al., (2006)
BT08		B03	AGAACCTCCGTATCCCTTCG	AGCCTACCCAGTGCTGAAAC	52	208-230	Reber-Funk et al., (2006)
BT10		B08	TCTTGCTATCCACCACCCGC	GGACAGAAGCATAGACGCACCG	53	178-188	Reber-Funk et al., (2006)
BT11		B09	AAGAGAGAGACAGAGAGAGATAGGG	GCGTTTTGACGATTAGATTAGAGCC	52	153-177	Reber-Funk et al., (2006)
BT15		B15	ACTTAGCCAGCCATCGCTAC	CTCTCTCTTTCTCTCTCTTATACGC	53	182-214	Reber-Funk et al., (2006)
BT20		B10	TTCCACAGCGTTTTCTTAAGTC	ATGGACGGCGAGATCGTGAG	52	157-165	Reber-Funk et al., (2006)
BT23		B11	GCAACAGAAAATCGTCGGTAGTG	GCGGCAATAAAGCAATCGG	54	198-216	Reber-Funk et al., (2006)
BT24		B07	TCTTTCCGTTTTCCCCCTG	CACCCACTTACATACATACACGCTC	52	227-257	Reber-Funk et al., (2006)
BT30		B12	ATCGTATTATTGCCACCAACCG	CAGCAACAGTCACAACAAACGC	53	201-203	Reber-Funk et al., (2006)
BTERN01		B11	CGTGTTTAGGGTACTGGTGGTC	GGAGCAAGAGGGCTAGACAAAAG	49	120-122	Reber-Funk et al., (2006)
BTMS0071	FJ616203	B15	CGCGTAAATTATTCCCCTCCC	CCATCTCGCGCAGAATGTTT	57	237-239	Stolle et al., (2009)
BTMS0081	FJ616212	B06	ACGCGCGCCTTCTACTATC	AGGGACACGCGAACAGAC	60	321-327	Stolle et al., (2009)
BTMS0087	FJ616218	B10	CGCGACGTATAGACAGAGGA	AGCTGCCAGCGCTAAAGTAT	60	202-210	Stolle et al., (2009)
BTMS0093	FJ616224	B09	AGATTGCGATGGCTAAAGTCG	AAAGTCTCTACTGTCGCGCT	51	316-320	Stolle et al., (2009)
BTMS0099	FJ616230	B06	TGTCGGTGTTTCAACACTTTGT	AAAGAGGCGACTACGGTCAA	51	192-196	Stolle et al., (2009)
BTMS0102	FJ616233	B12	AATCGCAAGGGAAAACGTCC	TCTTCTCCGGTGTTTTCGGA	60	219-225	Stolle et al., (2009)
BTMS0103	FJ616234	B15	CAGGTGTTGCCGGCTAGATA	CTCAACGGATCTGGGACAGT	55	314-343	Stolle et al., (2009)
BTMS0124	FJ616254	B06	CGCCGTAATGTTAACTCC	ACTCAATCCAAACGCCACC	54	270	Stolle et al., (2009)

Marker	Accession number (GenBank)	LG *B.t.*	Forward primer sequence	Reverse primer sequence	*Ta*	Range	Source
BTMS0129	FJ616259	B10	CCTCGCGAATAGATAAAT	AGCTACCGTGCCTGTCC	55	154-160	Stolle et al., (2009)
BTMS0130	FJ616260	B09	AGACAAAGGGAGATGGTG	TTTCGTTCCTCGTGCTAC	52	302-306	Stolle et al., (2009)
BTMS0131	FJ616261	B10	TACAAACGATGCGTGAGG	AGTCAAGTAAGTCCTACCG	48	331-335	Stolle et al., (2009)
BTMS0147	FJ616276	B15	TTGAGAAAGTAGAAAAATGGA	TCTGTTTATCGATCCTCTTC	51	170-174	Stolle et al., (2009)