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Supplementary Data

Mapping of quantitative trait loci for aroma, amylose content and cooked grain elongation traits in rice

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Supplimentary Table 1. Summary of markers and their sequence

Locus Name	Forward Primer Sequence	Reverse Primer Sequence
RM1	GCGAAAACACAATGCAAAAA	GCGTTGGTTGGACCTGAC
RM243	GATCTGCAGACTGCAGTTGC	AGCTGCAACGATGTTGTCC
RM81A	GAGTGCTTGTGCAAGATCCA	CTTCTTCACTCATGCAGTTC
RM237	CAAATCCCGACTGCTGTCC	TGGGAAGAGAGCACTACAGC
RM212	CCACTTTCAGCTACTACCAG	CACCCATTTGTCTCTCATTATG
RM431	TCCTGCGAACTGAAGAGTTG	AGAGCAAAACCCTGGTTCAC
RM35	TGGTTAATCGATCGGTCGCC	CGACGGCAGATATACACGG
RM238	GATGGAAAGCACGTGCACTA	ACAGGCAATCCGTAGACTCG
RM220	GGAAGGTAACTGTTTCCAAC	GAAATGCTTCCCACATGTCT
RM14	CCGAGGAGAGGAGTTCGAC	GTGCCAATTTCCTCGAAAAA
RM5	TGCAACTTCTAGCTGCTCGA	GCATCCGATCTTGATGGG
RM259	TGGAGTTTGAGAGGAGGG	CTTGTTGCATGGTGCCATGT
RM84	TAAGGGTCCATCCACAAGATG	TTGCAAATGCAGCTAGAGTAC
RM104	GGAAGAGGAGAGAAAGATGTGTGTCG	TCAACAGACACACCGCCACCGC
RM23	CATTGGAGTGGAGGCTGG	GTCAGGCTTCTGCCATTCTC
RM24	GAAGTGTGATCACTGTAACC	TACAGTGGACGGCGAAGTCG
RM34	GAAATGGCAATGTGTGCG	GCCGGAGAACCCTAGCTC
RM211	CCGATCTCATCAACCAACTG	CTTCACGAGGATCTCAAAGG
RM154	ACCCTCTCCGCCTCGCCTCCTC	CTCCTCCTCCTGCGACCGCTCC
RM110	TCGAAGCCATCCACCAACGAAG	TCCGTACGCCGACGAGGTCGAG
RM174	AGCGACGCCAAGACAAGTCGGG	TCCACGTCGATCGACACGACGG
RM29	CAGGGACCCACCTGTCATAC	AACGTTGGTCATATCGGTGG
RM263	CCCAGGCTAGCTCATGAACC	GCTACGTTTGAGCTACCACG
RM221	ACATGTCAGCATGCCACATC	TGCAAGAATCTGACCCGG
RM203	CCTATCCCATTAGCCAAACATTGC	GATTTACCTCGACGCCAACCTG
RM6	GTCCCCTCCACCCAATTC	TCGTCTACTGTTGGCTGCAC
RM213	ATCTGTTTGCAGGGGACAAG	AGGTCTAGACGATGTCGTGA
RM208	TCTGCAAGCCTTGTCTGATG	TAAGTCGATCATTGTGTGGACC
RM207	CCATTCGTGAGAAGATCTGA	CACCTCATCCTCGTAACGCC
RM48	TGTCCCACTGCTTTCAAGC	CGAGAATGAGGGACAAATAACC
RM236	GCGCTGGTGGAAAATGAG	GGCATCCCTCTTTGATTCCTC
RM2	ACGTGTCACCGCTTCCTC	ATGTCCGGGATCTCATCG
RM215	CAAAATGGAGCAGCAAGAGC	TGAGCACCTCCTTCTCTGTAG
RM22	GGTTTGGGAGCCCATAATCT	CTGGGCTTCTTTCACTCGTC
RM7	TTCGCCATGAAGTCTCTCG	CCTCCCATCATTTCGTTGTT
RM200	CGCTAGGGAATTTGGATTGA	CGATGAGCAGGTATCGATGAGAAG
RM202	CAGATTGGAGATGAAGTCCTCC	CCAGCAAGCATGTCAATGTA
RM26	GAGTCGACGAGCGGCAGA	CTGCGAGCGACGGTAACA
RM55	CCGTCGCCGTAGTAGAGAAG	TCCCGGTTATTTTAAGGCG
RM282	CTGTGTCGAAAGGCTGCAC	CAGTCCTGTGTTGCAGCAAG
RM251	GAATGGCAATGGCGCTAG	ATGCGGTTCAAGATTCGATC
RM16	CGCTAGGGCAGCATCTAAA	AACACAGCAGGTACGCGC
RM168	TGCTGCTTGCCTGCTTCCTTT	GAAACGAATCAATCCACGGC
RM305	TACTGCCAAAGGCGAGCTTC	GTGAGAGGCTACAGCTAACC
RM315	GAGGTACTTCCTCCGTTTCAC	AGTCAGCTCACTGTGCAGTG
RM323	CAACGAGCAAATCAGGTCAG	GTTTTGATCCTAAGGCTGCTG
RM149	GCTGACCAACGAACCTAGGCCG	GTTGGAAGCCTTTCCTCGTAACACG
RM260	ACTCCACTATGACCCAGAG	GAACAATCCCTTCTACGATCG
RM330	CAATGAAGTGGATCTCGGAG	CATCAATCAGCGAAGGTCC

RM331	GAACCAGAGGACAAAAATGC	CATCATACATTTGCAGCCAG
RM36	CAACTATGCACCATTGTCGC	GTACTCCACAAGACCGTACC
RM148	ATACAACATTAGGGATGAGGCTGG	TCCTTAAAGGTGGTGCAATGCGAG
RM5633	GTGTAGCTGCTAGGCCGAAC	TTCCTTTCGCTACGTTGGAC
RM273	GAAGCCGTCGTGAAGTTACC	GTTTCCTACCTGATCGCGAC
RM252	TTCGCTGACGTGATAGGTTG	ATGACTTGATCCCGAGAACG
RM280	ACACGATCCACTTTGCGC	TGTGTCTTGAGCAGCCAGG
RM226	AGCTAAGGTCTGGGAGAAACC	AAGTAGGATGGGGCACAAGCTC
RM241	GAGCCAAATAAGATCGCTGA	TGCAAGCAGCAGATTTAGTG
RM13	TCCAACATGGCAAGAGAGAG	GGTGGCATTCGATTCCAG
RM264	GTTGCGTCCTACTGCTACTTC	GATCCGTGTCGATGATTAGC
RM333	GTACGACTACGAGTGTCACCAA	GTCTTCGCGATCACTCGC
RM262	CATTCCGTCTCGGCTCAACT	CAGAGCAAGGTGGCTTGC
RM122	GAGTCGATGTAATGTCATCAGTGC	GAAGGAGGTATCGCTTTGTTGGAC
RM153	GCCTCGAGCATCATCATCAG	ATCAACCTGCACTTGCCTGG
RM249	GGCGTAAAGGTTTTGCATGT	ATGATGCCATGAAGGTCAGC
RM440	CATGCAACAACGTCACCTTC	ATGGTTGGTAGGCACCAAAG
RM421	AGCTCAGGTGAAACATCCAC	ATCCAGAATCCATTGACCCC
RM480	GCTCAAGCATTCTGCAGTTG	GCGCTTCTGCTTATTGGAAG
RM164	TCTTGCCCGTCACTGCAGATATCC	GCAGCCCTAATGCTACAATTCTTC
RM31	GATCACGATCCACTGGAGCT	AAGTCCATTACTCTCCTCCC
RM3	ACACTGTAGCGGCCACTG	CCTCCACTGCTCCACATCTT
RM217	ATCGCAGCAATGCCTCGT	GGGTGTGAACAAAGACAC
RM50	ACTGTACCGGTCGAAGACG	AAATTCCACGTCAGCCTCC
RM528	GGCATCCAATTTTACCCCTC	AAATGGAGCATGGAGGTCAC
RM225	TGCCCATATGGTCTGGATG	GAAAGTGGATCAGGAAGGC
RM3345	AGTGTCCCCTTTTCTCTCCC	GCTTCTTTGCTTCCTATGGG
RM190	CTTTGTCTATCTCAAGACAC	TTGCAGATGTTCTTCCTGATG
RM30	GGTTAGGCATCGTCACGG	TCACCTCACCACACGACACG
RM340	GGTAAATGGACAATCCTATGGC	GACAAATATAAGGGCAGTGTGC
RM3628	AATCATGCCTAGAGCATCGG	GTTCAACATGGGTGCAGATG
RM253	TCCTTCAAGAGTGCAAAACC	GCATTGTCATGTCGAAGCC
RM275	GCATTGATGTGCCAATCG	CATTGCAACATCTTCAACATCC
RM204	GTGACTGACTTGGTCATAGGG	GCTAGCCATGCTCTCGTACC
RM5140	GACGAGGTTGTTTATTAGTG	CTTATTTTCACGTGTACGTT
RM240	CCTTAATGGGTAGTGTGCAC	TGTAACCATTCCTTCCATCC
RM255	TGTTGCGTGTGGAGATGTG	CGAAACCGCTCAGTTCAAC
RM320	CAACGTGATCGAGGATAGATC	GGATTTGCTTACCACAGCTC
RM560	GCAGGAGGAACAGAATCAGC	AGCCCGTGATACGGTGATAG
RM342	CCATCCTCCTACTTCAATGAAG	ACTATGCAGTGGTGTCACCC
RM47	ACTCCACTCCACTCCCCAC	GTCAGCAGGTCGGACGTC
RM427	TCACTAGCTCTGCCCTGACC	TGATGAGAGTTGGTTGCGAG
RM82	TGCTTCTTGTCAATTCGCC	CGACTCGTGGAGGTACGG
RM248	TCCTTGTGAAATCTGGTCCC	GTAGCCTAGCATGGTGCATG
RM214	CTGATGATAGAAACCTCTTCTC	AAGAACAGCTGACTTCACAA
RM505	AGAGTTATGAGCCGGGTGTG	GATTTGGCGATCTTAGCAGC
RM234	ACAGTATCCAAGGCCCTGG	CACGTGAGACAAAGACGGAG
RM10	TTGTCAAGAGGAGGCATCG	CAGAATGGGAAATGGGTCC
RM205	CTGGTTCTGTATGGGAGCAG	CTGGCCCTTCACGTTTCAGTG
RM18	TTCCCTCTCATGAGCTCCAT	GAGTGCCTGGCGCTGTAC
RM478	CAGCTGGGGAAGAGAGAGAG	TCAGAAACTAAACGCACCCC
RM428	AACAGATGGCATCGTCTTCC	CGCTGCATCCACTACTGTTG
RM500	GAGCTTGCCAGAGTGGAAAG	GTTACACCGAGAGCCAGCTC
RM337	GTAGGAAAGGAAGGGCAGAG	CGATAGATAGCTAGATGTGGCC
RM126	CGCGTCCGCGATAAACACAGGG	TCGCACAGGTGAGGCCATGTCG
RM339	GTAATCGATGCTGTGGGAAG	GAGTCATGTGATAGCCGATATG
RM137	GACATCGCCACCAGCCCACCAC	CGGGTGGTCCCCGAGGATCTTG
RM44	ACGGGCAATCCGAACAACC	TCGGGAAAACCTACCCTACC
RM284	ATCTCTGATACTCCATCCATCC	CCTGTACGTTGATCCGAAGC
RM256	GACAGGGAGTGATTGAAGGC	GTTGATTTCGCCAAGGGC
RM72	CCGGCGATAAAACAATGAG	GCATCGGTCCTAACTAAGGG
RM80	TTGAAGGCGCTGAAGGAG	CATCAACCTCGTCTTCACCG
RM515	TAGGACGACCAAAGGGTGAG	TGGCCTGCTCTCTCTCTCTC
RM38	ACGAGCTCTCGATCAGCCTA	TCGGTCTCCATGTCCCAC
RM230	GCCAGACCGTGGATGTTC	CACCGCAGTCACTTTTCAAG
RM149	GCTGACCAACGAACCTAGGCCG	GTTGGAAGCCTTTCCTCGTAACACG
RM308	GGCTGCACACGCACACTATA	TTACGCATATGGTGAGTAGGC

RM19	CAAAAACAGAGCAGATGAC	CTCAAGATGGACGCCAAGA
RM152	GAAACCACCACACCTCACCG	CCGTAGACCTTCTTGAAGTAG
RM134	ACAAGGCCGCGAGAGGATTCCG	GCTCTCCGGTGGCTCCGATTGG
RM118	CCAATCGGAGCCACCGGAGAGC	CACATCCTCCAGCGACGCCGAG
RM310	CCAAAACATTTAAAATATCATG	GCTTGTTGGTCATTACCATTC
RM325	GACGATGAATCAGGAGAACG	GGCATGCATCTGAGTAATGG
RM25	GGAAAGAATGATCTTTTCATGG	CTACCATCAAAACCAATGTTC
RM42	ATCCTACCGCTGACCATGAG	TTTGGTCTACGTGGCGTACA
RM195	AGAAAGAGAGGCCGTCGGCGGC	GGGCTCACCCCCAAACCTGCAG
RM20	ATCTTGTCCCTGCAGGTCAT	GAAACAGAGGCACATTTCATTG
RM235	AGAAGCTAGGGCTAACGAAC	TCACCTGGTCAGCCTCTTTC
RM39	GCCTCTCTCGTCTCCTTCCT	AATTCAAACTGCGGTGGC
RM219	CGTCGGATGATGTAAAGCCT	CATATCGGCATTCGCCTG
RM242	GGCCAACGTGTGTATGTCTC	TATATGCCAAGACGGATGGG
RM257	CAGTTCCGAGCAAGAGTACTC	GGATCGGACGTGGCATATG
RM444	GCTCCACCTGCTTAAGCATC	TGAAGACCATGTTCTGCAGG
RM245	ATGCCGCCAGTGAATAGC	CTGAGAATCCAATTATCTGGGG
RM215	CAAAATGGAGCAGCAAGAGC	TGAGCACCTCCTTCTCTGTAG
RM41	AAGTCTAGTTTGCCTCCC	AATTTCTACGTCGTCGGGC
RM201	CTCGTTTATTACCTACAGTACC	CTACCTCCTTTCTAGACCGATA
RM171	AACGCGAGGACACGTACTTAC	ACGAGATACGTACGCCTTTG
RM222	CTTAAATGGGCCACATGCG	CAAAGCTTCCGGCCAAAAG
RM228	CTGGCCATTAGTCCTTGG	GCTTGCGGCTCTGCTTAC
RM258	TGCTGTATGTAGCTCGCACC	TGGCCTTTAAAGCTGTCGC
RM216	GCATGGCCGATGGTAAAG	TGTATAAAACCACACGGCCA
RM244	CCGACTGTTCGTCCTTATCA	CTGCTCTCGGGTGAACGT
RM239	TACAAAATGCTGGGTACCCC	ACATATGGGACCCACCTGTC
RM304	TCAAACCGGCACATATAAGAC	GATAGGGAGCTGAAGGAGATG
RM286	GGCTTCATCTTTGGCGAC	CCGGATTCACGAGATAAACTC
RM209	ATATGAGTTGCTGTCGTGCG	CAACTTGCATCCTCCCCTCC
RM229	CACTCACACGAACGACTGAC	CGCAGGTTCTTGTGAAATGT
RM332	GCGAAGGCGAAGGTGAAG	CATGAGTGATCTCACTCACCC
RM552	CGCAGTTGTGGATTTCAGTG	TGCTCAACGTTTGACTGTCC
RM144	TGCCCTGGCGCAAATTTGATCC	GCTAGAGGAGATCAGATGGTAGTGCATG
RM247	TAGTGCCGATCGATGTAACG	CATATGGTTTTGACAAAGCG
RM83	ACTCGATGACAAGTTGAGG	CACCTAGACACGATCGAG
RM21	ACAGTATTCCGTAGGCACGG	GCTCCATGAGGGTGGTAGAG
RM167	GATCCAGCGTGAGGAACACGT	AGTCCGACCACAAGGTGCGTTGTC
RM224	ATCGATCGATCTTCACGAGG	TGCTATAAAAGGCATTCGGG
RM4	TTGACGAGGTCAGCACTGAC	AGGGTGTATCCGACTCATCG
RM579	TCCGAGTGGTTATGCAAATG	AATTGTGTCCAATGGGCTGT
RM17	TGCCCTGTTATTTTCTTCTCTC	GGTGATCCTTTCCCATTTCA
RM206	CCCATGCGTTTAACTATTCT	CGTTCCATCGATCCGTATGG
RM19	CAAAAACAGAGCAGATGAC	CTCAAGATGGACGCCAAGA
RM233	CCAAATGAACCTACATGTTG	GCATTGCAGACAGCTATTGA
RM240	CCTTAATGGGTAGTGTGCAC	TGTAACCATTCCTTCCATCC
RM261	CTACTTCTCCCCTTGTGTCG	TGTACCATCGCCAAATCTCC
RM481	TAGCTAGCCGATTGAATGGC	CTCCACCTCCTATGTTGTTG
RM70	GTGGACTTCATTTCAACTCG	GATGTATAAGATAGTCCC
RM27	TTTTCCTTCTCACCCACTTCA	TCTTTGACAAGAGGAAAGAGGC
RM53	ACGTCTCGACGCATCAATGG	CACAAGAACTTCCTCGGTAC
RM254	AGCCCCGAATAAATCCACCT	CTGGAGGAGCATTTGGTAGC
RM25	GGAAAGAATGATCTTTTCATGG	CTACCATCAAAACCAATGTTC
RM264	GTTGCGTCCTACTGCTACTTC	GATCCGTGTCGATGATTAGC
RM324	CTGATTCCACACACTTGTGC	GATTCCACGTCAGGATCTTC
RM223	GAGTGAGCTTGGGCTGAAAC	GAAGGCAAGTCTTGGCACTG
RM11	TCTCCTCTTCCCCCGATC	ATAGCGGGCGAGGCTTAG
RM555	TTGGATCAGCCAAAGGAGAC	CAGCATTGTGGCATGGATAC
RM138	AGCGCAACAACCAATCCATCCG	AAGAAGCTGCCTTTGACGCTATGG
RM475	CCTCACGATTTTCCTCCAAC	ACGGTGGGATTAGACTGTGC
RM300	GCTTAAGGACTTCTGCGAACC	CAACAGCGATCCACATCATC
RM510	AACCGGATTAGTTTCTCGCC	TGAGGACGACGAGCAGATTC
RM314	CTAGCAGGAACTCCTTTCAGG	AACATTCCACACACACACGC
RM539	GAGCGTCCTTGTTAAAACCG	AGTAGGGTATCACGCATCCG
RM120	CACACAAGCCCTGTCTCACGACC	CGCTGCGTCATGAGTATGTA
RM525	GGCCCGTCCAAGAAATATTG	CGGTGAGACAGAATCCTTACG
RM287	TTCCCTGTTAAGAGAGAAATC	GTGTATTTGGTGAAAGCAAC

RM163	ATCCATGTGCGCCTTTATGAGGA	CGCTACCTCCTTCACTTACTAGT
RM321	CCAACACTGCCACTCTGTTC	GAGGATGGACACCTTGATCG
RM348	CCGCTACTAATAGCAGAGAG	GGAGCTTTGTTCTTGCGAAC
RM279	GCGGGAGAGGGATCTCCT	GGCTAGGAGTTAACCTCGCG
RM71	CTAGAGGCGAAAACGAGATG	GGGTGGGCGAGGTAATAATG
RM473	TATCCTCGTCTCCATCGCTC	AAGGATGTGGCGGTAGAATG
RM537	CCGTCCCTCTCTCTCCTTTC	ACAGGGAAACCATCCTCCTC
RM535	ACTACATACACGGCCCTTGC	CTACGTGGACACCGTCACAC
RM467	GGTCTCTCTCTCTCTCTCTCTC	CTCCTGACAATTCAACTGCG
RM313	TGCTACAAGTGTTCTTCAGGAC	GCTCACCTTTTGTGTTCCAC
RM526	CCCAAGCAATACGTCCCTAG	ACCTGGTCATGACAAGGAGG
RM105	GTCGTCGACCCATCGGAGCCAC	TGGTCGAGGTGGGGATCGGGTC
RM60	AGTCCCATGTTCCACTTCCG	ATGGCTACTGCCTGTACTAC
RM573	CCAGCCTTTGCTCCAAGTAC	TCTTCTTCCCTGGACCACAC
RM450	AAACCACAGTAGTACGCCGG	TCCATCCACATCTCCCTCTC
RM318	GTACGGAAAACATGGTAGGAAG	TCGAGGGAAGGATCTGGTC
RM26	GAGTCGACGAGCGGCAGA	CTGCGAGCGACGGTAACA
RM6	GTCCCCTCCACCCAATTC	TCGTCTACTGTTGGCTGCAC
RM210	TCACATTCGGTGGCATTG	CGAGGATGGTTGTTCACTTG
RM553	AACTCCACATGATTCCACCC	GAGAAGGTGGTTGCAGAAGC
RM102	AACTTTCCCACCACCACCGCGG	AGCAGCAGCAAGCCAGCAAGCG
RM166	GGTCCTGGGTCAATAATTGGGTTACC	TTGCTGCATGATCCTAAACCGG
AROE	(ESP)TTGTTTGGAGCTTGC TGATG	(EAP)AGTGCTTTACAAAGTCCCGC
	(IFAP)CATAGGAGCAGCTGAAATATATACC	(INSP)CTGGTAAAAAGATTATGGCTTCA
Waxy	CTTTGTCTATCTCAAGACAC	TTGCAGATGTTCTTCCTGATG
Waxy II	CTTTGTCTATCTCAAGACAC	TTTCCAGCCCAACACCTTAC
GE1	ACCGAGCCACCT TTGAGTAAG	CACCACCAACCCATTCATTTCT
GE2	GCGACAGAACTCCTTGTTTATTC	TCCCCATCTACCCCTATCG
GE3	CGACATCAGGTCAGACACTCG	CGTCCGTTTCCAATCCAAC
GE	(EFP)AGGCTAAACACATGCCCATCTC	(ERP)CCCAACGTTCAGAAATTAAATTGCTG
	(IRSP) AACAGCAGGCTGGCT TACTCTCTG	(IFLP)ACGCTGCCTCCAGATGCTGA