

Number	VarietyName	Country of Origin	Subgroup	Wx ^{Ref}	Wx ^{230p}	Wx ^{Alt}	Wx ^{Alt}	AAC%	Peak Visc	Hot Paste Visc	Break down Visc	Cool Paste Visc	Setback Visc	Peak Time	To (°C)	Tp (°C)	Tc (°C)	Tc-To (°C)	ΔH (J/g)
3N405	KATUNG::IRGC 71536-1	Malaysia	XI-3	Alt	Ref	Alt	Ref	22.83	3199	2030	1169	3399	200	5.93	74.35	78.35	83.7	9.35	9.878
3N408	SERENDAH SUNGAI DUA 25::IRGC 13892-1	Malaysia	XI-3	Alt	Ref	Alt	Ref	19.24	3517	1860	1657	3113	-404	5.67	74.35	78.4	83.65	9.3	9.089
3N418	KUNENG::IRGC 71545-1	Malaysia	XI-3	Alt	Ref	Alt	Ref	23.32	2943	2305	638	3514	571	6.53	63	68.1	74.5	11.5	7.2925
3N431	TOLIL 14::IRGC 13836-2	Malaysia	XI-3	Alt	Ref	Alt	Ref	16.96	2876	1922	954	3738	862	6	74.75	79	84.05	9.3	8.929
3N458	MR 297	Malaysia	admix	Alt	Ref	Alt	Ref	19.30	3404	1903	1501	3641	237	5.67	76.4	80.35	84.2	7.8	10.0195
3N410	PADI HANGIR::IRGC 79507-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	25.64	3466	2271	1195	4056	590	6.07	74.9	79.3	85.3	10.4	9.8835
3N415	PADI MIAT (KECIL)::IRGC 97366-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref												
3N419	WANGKOD::IRGC 71646-1	Malaysia	XI-2	Alt	Ref	Alt	Ref	21.71	3114	2474	640	3504	390	6.47	72.3	77.6	83.2	10.9	8.5365
3N420	ANGKARONG::IRGC 71493-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	20.87	3703	2454	1249	3782	79	5.93	72.8	77.7	84.15	11.35	8.68
3N421	BABELIONG::IRGC 82688-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	15.85	2558	2152	406	3761	1203	6.6	70.4	76	81.7	11.3	8.368
3N423	PADI BURIH::IRGC 44081-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	20.44	3367	2307	1060	3841	474	6.2	73.3	78.5	85.5	12.2	10.2485
3N424	PADI JALAI BELA::IRGC 44084-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	15.69	3077	2425	652	4152	1075	6					
3N427	BUKU::IRGC 28683-2	Malaysia	GJ-trp	Alt	Ref	Alt	Ref												
3N428	ENGKABANG::IRGC 28694-2	Malaysia	GJ-trp	Alt	Ref	Alt	Ref												
3N432	PADI ADONG DUMARAT::IRGC 14356-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	19.73	3100	2531	569	3847	747	6.73	70.45	75.85	82.35	11.9	8.7235
3N433	PADI DARAWAL::IRGC 14373-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	18.12	3205	2483	722	4092	887	6.4	70.7	76.25	82.45	11.75	8.6705
3N437	DARAWAL::IRGC 71514-1	Malaysia	admix	Alt	Ref	Alt	Ref	18.61	3460	2515	945	4148	688	6.13	74	78.75	84.3	10.3	8.703
3N438	PULUTAN::IRGC 71596-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	3.60	3378	2092	1286	2704	-674	4.67	72.15	76.55	81.95	9.8	7.2145
3N442	SAWAH::IRGC 71612-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	18.59	3168	2344	824	3366	198	6.27	71.85	76.85	82.95	11.1	7.2275
3N444	KENDINGA 5 (H)::IRGC 60310-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	17.12	2952	1998	954	3307	355	5.93	73.65	78.5	84.7	11.05	8.374
3N445	LASAT PUTIH::IRGC 44076-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	18.73	3555	2597	958	3982	427	6.27	71.1	76.7	83	11.9	9.35
3N446	LIMBAYAN::IRGC 71556-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	16.32	3608	2864	744	4211	603	6.53	71.75	77.2	84.3	12.55	9.243
3N447	PURAK SIRIBA::IRGC 71598-1	Malaysia	GJ-trp	Alt	Ref	Alt	Ref	15.59	3605	3032	573	4363	758	6.73	73.05	78.05	86.55	13.5	10.92
3N401	KUATEK::IRGC 14285-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	19.40	3448	2733	715	4430	982	6.2	73.55	77.8	83.15	9.6	10.32
3N402	SADOK::IRGC 13334-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	23.03	3533	2383	1150	4260	727	5.6	75.9	79.6	84.55	8.65	8.691
3N403	BATU::IRGC 71508-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	21.42	3876	2545	1331	4172	296	5.8	74.85	78.95	84.9	10.05	10.42
3N404	GUMPANGAR::IRGC 71524-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	20.10	3636	2321	1315	4148	512	5.6	75.05	79.2	84.3	9.25	10.447
3N407	UNGUL::IRGC 71644-1	Malaysia	XI-3	Alt	Ref	Ref	Alt												
3N412	SESAT JADI::IRGC 71834-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	17.38	3123	2364	759	4024	901	6.13	73.65	78.25	82.3	8.65	8.5065
3N413	PULUT MERAH 2::IRGC 60427-1	Malaysia	admix	Alt	Ref	Ref	Alt	21.36	3537	2522	1015	4182	645	5.93	73.15	77.35	82.85	9.7	10.44
3N414	CHE MAH::IRGC 79480-1	Malaysia	XI-3	Alt	Ref	Ref	Alt												
3N416	BONGOLON::IRGC 13094-3	Malaysia	XI-3	Alt	Ref	Ref	Alt	25.15	3825	2478	1347	4147	322	5.8	75.55	79.6	84.85	9.3	8.9745
3N417	PADI TIMBUN::IRGC 13451-3	Malaysia	XI-3	Alt	Ref	Ref	Alt	22.71	3431	2316	1115	4059	628	5.8	74.75	78.7	83.7	8.95	8.6935
3N422	MR 69::IRGC 60188-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	16.34	3638	2807	831	4678	1040	6.07	73.95	78	82.8	8.85	8.727
3N426	RADIN GOI::IRGC 13969-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	21.34	3414	2396	1018	3909	495	5.87	73.75	78.75	83.15	9.4	9.562
3N429	HAJI HARUN 38::IRGC 13827-2	Malaysia	XI-3	Alt	Ref	Ref	Alt	20.83	3002	2390	612	4064	1062	6	73.65	78.05	83.1	9.45	8.9385
3N435	Malaihong	Malaysia	XI-1A	Alt	Ref	Ref	Alt	21.01	3420	2861	559	4750	1330	6.33	72.55	77.4	82.5	9.95	7.8395
3N436	SEBERANG MR 77::C1	Malaysia	XI-1B	Alt	Ref	Ref	Alt	19.81	3720	3033	687	5020	1300	6.2	65.5	70.2	76.15	10.65	6.3855
3N439	KUTAI PAYA::IRGC 19528-1	Malaysia	XI-3	Alt	Ref	Ref	Alt												
3N443	KONTOL 86::IRGC 14281-1	Malaysia	XI-3	Alt	Ref	Ref	Alt	22.79	3742	2420	1322	4313	571	5.87	74.1	78.1	83	8.9	9.2025
3N449	MR 106	Malaysia	XI-adm	Alt	Ref	Ref	Alt	22.32	3447	2541	906	4354	907	6.07	74.35	78.2	83.15	8.8	8.9975
3N451	MR 77 (Seberang)	Malaysia	XI-adm	Alt	Ref	Ref	Alt	21.97	3643	2709	934	4556	913	6	73.25	77.45	82.8	9.55	8.37
3N453	Seberang	Malaysia	XI-adm	Alt	Ref	Ref	Alt	23.32	3450	2729	721	4327	877	6.2	74.1	78.3	84	9.9	8.431
3N454	Sri Raja	Malaysia	XI-3	Alt	Ref	Ref	Alt												
3N409	DELI 2::IRGC 80313-1	Malaysia	admix	Alt	Ref	Ref	Alt	19.40	3994	2636	1358	4725	731	5.73	73.8	78	83.45	9.65	9.5075
3N508	Radin Ebo 33	Malaysia	XI-1B	Alt	Ref	Ref	Alt	20.67	3408	2605	803	4587	1179	6.2	70.75	75.25	83.2	12.45	8.8555
3N406	RADIN PAHANG::IRGC 14487-1	Malaysia	XI-3	Alt	Ref	Ref	Ref												
3N425	PERUBAK LUEY::IRGC 86436-1	Malaysia	XI-1B	Alt	Ref	Ref	Ref	19.99	2771	2484	287	4361	1590	6.47	73.3	77.8	82.3	9	9.0265
3N440	BANJANG::IRGC 44069-1	Malaysia	GJ-trp	Alt	Ref	Ref	Ref	26.93	2963	1957	1006	3292	329	5.67	64.8	70.85	77.1	12.3	9.417
3N450	MR 167	Malaysia	XI-adm	Alt	Ref	Ref	Ref	20.95	2158	1864	294	3136	978	6.2	64.05	69.1	75.15	11.1	5.067
3N455	MR 84	Malaysia	XI-adm	Alt	Ref	Ref	Ref	23.48	1795	1401	394	2432	637	5.87	63.75	68.85	75.15	11.4	6.6215
3N457	MR 39	Malaysia	admix	Ref	Ref	Ref	Ref	11.74	3474	2576	898	3921	447	6.53	67.4	72.3	78.4	11	8.788
3N448	MR 185	Malaysia	XI-1B	Ref	Ref	Ref	Ref	14.45	3689	2482	1207	4071	382	6.13	67.6	72.25	78.45	10.85	8.167
3N452	Inmayebaw	Malaysia	XI-3	Ref	Ref	Ref	Ref	12.33	3277	1985	1292	3374	97	5.87	65.65	70.95	77.05	11.4	7.477
3N456	PADISENEMOK	Malaysia	XI-adm	Ref	Ref	Ref	Ref	12.65	3573	2743	830	4378	805	6.4	68.75	73.85	79.8	11.05	8.7715
3N411	PULUT BURUNG::IRGC 71655-1	Malaysia	XI-3	Ref	Alt	Ref	Ref	3.58	3506	1826	1680	2261	-1245	4.6	77.95	82.1	87.45	9.5	11.28
3N434	PULUT SELEMAYAM::IRGC 71820-1	Malaysia	XI-3	Ref	Alt	Ref	Ref	1.52	2951	1469	1482	1824	-1127	3.8	64.8	70.85	77.1	12.3	9.417
3N430	PADI PULOT MELAYANG::IRGC 14391-2	Malaysia	XI-adm	Ref	Alt	Ref	Ref	5.76	1697	1297	400	1800	103	4.6	66.55	73.35	83.35	16.8	8.5015
3N441	LEKATAN::IRGC 71554-1	Malaysia	GJ-trp	Ref	Alt	Ref	Ref												
3N510	NIP	Japan	GJ	Ref	Ref	Ref	Ref	15.12	3217	2198	1019	3569	352	6.27	65.45	71.65	79.05	13.6	7.694

Supplemental Table S1: Variety name, marker variation, AAC, Rapid Visco Analyzer (RVA), Differential Scanning Calorimetry (DSC) Profiles of Malaysian Rice Varieties. For the allele types of *Waxy*, orange indicates the NIP (Ref) allele, and blue indicates the alternative (Alt) allele.