

Supplementary Table 1 Characteristics of 43 SSR markers used for diversity analysis in the studied accessions

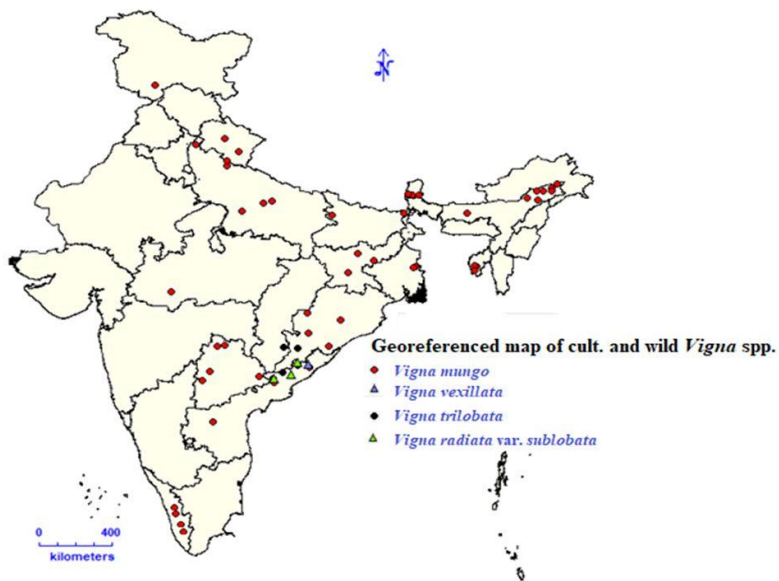
Primer ID	Sequence F-forward, R-Reverse	Allele Size
VR013	F-GAAGTGGCGGAAGATTGATAAG R-GGTAGATGGAAGGTAGAGGAATGA	210-290
VR015	F-TCTCTTCTCTCTTCTCTCTTCTTCTTC R-TTGTGTCTGAGGCTATGTTGGT	100-180
VR016	F-AGGAGAAATTGTTGTTGTTTCGG R-GTGTTGATTGTTAGGGAGGGAG	100-200
VR021	F-TTCCCTGTGTCCTTATATGTCC R-GAGGATAGTGAATTTGAAGGC	100-130
VR022	F-AAGATCACACACAACCAACCC R-AATTAGTTCCACAGGCCAGATT	210-290
VR024	F-GCTCTAAAACACGAAAGGGGT R-TCATGGTGGAAGAAAAGCAA	120-140
VR025	F-GCTGTGGTGTATTTACCTTGGG R-ATCCTCCGGTCATTATCTTGTG	80-120
VR029	F-GTGGCTCACAAGGTAGTGCTAA R-GAGAGAAACAACCAACCAAAGG	200-230
VR032	F-ATATCAGCCATTGTTGCTTTCC R- TTCCCAGTTCAGACAACCAAGT	230-290
VR040	F-TGACAACATGGGAAGAAGAAGA R-ACACCAACACAAAAGCAAACAC	150-190
VR095	F-CATGTGAGCTACCTTTCAACA R-CAAGGACTGCTATATCCAAGGC	120-160
VR102	F-GCTCCAACACTCACTCACAAAC R-CAGAAATGCAGGAAAAGAGAGG	120-140
VR108	F-TGCATCTTTATTGAGTTCCGTG R-GTTTTGGGGTGAATGTTGGATA	220-250
VR111	F-GGTGTTGTTGTTGAGGAATGAA R-AACATTGAGGACCCACATATCC	160-200
VR147	F-CCATGTGTGTGAATGTGAGTGA R-CCTTTGATTTTGTGGGATGTGT	90-120
VR-256	F-GCTGTGGTGTATTTACCTTGGG R-ATCCTCCGGTCATTATCTTGTG	100-120
VR-303	F-AGACGAAGAAGAAAACGCAGAC R-CCTCACACACAACACAACAGAA	160-170
VR-304	F-GAAGCGAAGAAGCCATAGAAAA R-CCTCACACACAACACAACAGAA	170-190
VR-338	F-ACTGAAGAGAATGGGTTAGGGG R-TCACATTTGTTGGGTGAAGAG	180-190
VR393	F-TGGCACTTTCCATAACGAATAC R-ATCAGCCAAAAGCTCAGAAAAC	130-160
VR400	F-ATCATAGATAGGGGACCAACCC R-ATCTTAGGGAGTCTTCGAGGGA	130-160
VR413	F-GAGAAACCTTGGAGTTGGAGG R-GCCTGTCAAGAAGGAACCTAAA	110-130

VM24	F-TCAACAACACCTAGGAGCCAA R-ATCGTGACCTAGTGCCCACC	150-170
VM27	F-GTCCAAAGCAAATGAGTCAA R-TGAATGACAATGAGGGTGC	190-280
mgSSR25	F-CCATCATTCTTGCAATTGCG R-AGCAACGAGACCTTGTTGCC	180-210
mgSSR56	F-CTAAATGCAACAACACATGACACC R-ATTTGTATGGGTGCGACACC	150-190
mgSSR63	F-TCAGGATATGCTCACCGTGC R-CCACCTCCTAGGGAGTGTCC	180-210
mgSSR142	F- TTTTGCATTGTTTTGCAGGG R-TAGCCTCTAATCGCTCTGGC	100-190
mgSSR148	F-AGCTACACAGATCACCTGGTGC R-TCGGAGTGGAGAAGAGAGTCG	150-280
mgSSR172	F-CGTGCGATCACACATGTGC R-CCTATTTTATTAGTTGCACCACC	100-130
mgSSR 173	F-AGCATTGAGAGAGAACGTAGGG R-CTCTTTTCTCTCTTTCTTCCTC	190-210
MB122A	F-TGGTTGGTTGGTTCACAAGA R-CACGGGTTCTGTCTCCAATA	190-220
MB-738 A	F-CGCAAAGAGAGAGAGAGAG R-CCCCCATCTGAAAGAAAGAG	240-260
MB323B	F-GCTATGCTATCGACACTGACTGA R-GCGCAAAGAGAGAGAGAGAGA	220-250
AB-128079	F-AGCGAGTTTCGTTTCAAG R-GCCCATATTTTACGCCAC	140-150
AB-128093	F-CCCGATGAACGCTAATGCTG R-CGCCAAAGAAACGCAGAAC	190-210
AB-128100	F-CATCTTCCTCACCTGCATTC R-TTTGGTGAAGATGACAGCCC	140-160
PvM03	F-CCGCCTTCTTCTTCTTCTTC R-CGGCGAGTCATCTTTTCC	180-230
PvM13b	F-GAGAAGCCGCAGAGAGGA R-AGATGCCGCGAACAGAAC	210-270
BMD-18	F-AAAGTTGGACGCACTGTGATT R-TCGTGAGGTAGGAGTTTGGTG	110-130
BMD-26	F-CTTGCCTTGTGCTTCCTTCT R-TCCATTCCCAACCAAGTTTC	110-120
BMD-47	F-ACCTGGTCCCTCAAACCAAT R-CAATGGAGCACCAAAGATCA	130-190
BMD-48	F-CCCCACCAACTCTTTCTTCC R-CAGAATTGACTTGCGGAGAA	120-130

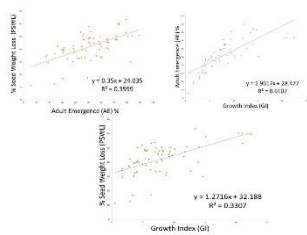
Supplementary Table 2 Categorisation of the accessions against their reaction to *C. maculatus*

Reaction of studied the accessions based on AE (%)			
Class	Range	No. of accessions	List of accessions
I	0	1	IC259504
R	1.0-15.0	1	IC424616
MR	15.1-30.0	8	IC436519,IC557300,IC569057,IC569080,IC598464,IC626440,KU-6,MASH-114
MS	30.1-45.0	13	IC394301,IC394551,IC396791,IC436644,IC436702,IC472054,IC541882,IC556511,IC557279,IC568947,IC626441,IC628759,IC628781
S	45.1-60.0	25	IC140825,IC371765,IC393526,IC393540,IC393545,IC393551,IC394168,IC394232,IC394276,IC394448,IC394479,IC394940,IC395030,IC398744,IC401376,IC426766,IC436770,IC449265,IC471981,IC472021,IC472034,IC557292,IC568908,PU-11-14,IPU-2-43
HS	>60	21	IC392275,IC393543,IC393550,IC394436,IC417875,IC436951,IC447791,IC449258,IC541046,IC545207,IC626446,IC628811,IC331454,IC331457,IC524639,IC553505,IC553510,IC553516,IC553517,IC553520,IC553532
Reaction of the studied accessions based on PSWL			
I	0	1	IC259504
R	1.0-12.0	1	IC424616
MR	12.0-24.0	3	IC426766, KU-6,MASH-114
MS	24.0-36.0	15	IC393540,IC394551,IC396791,IC398744,IC401376,IC598464,IC626440,IC628759,IC628781,IC628811,IC331454,IC436519,IC436644,IC436702,IC436770
S	36.0-48.0	29	IC140825,IC392275,IC393526,IC393543,IC393545,IC393550,IC393551,IC394168,IC417875,IC436951,IC471981,IC472021,IC472034,IC472054,IC541882,IC545207,IC556511,IC557279,IC557292,IC557300,IC568908,IC626440,IC626441,IC568947,IC569057,IC569080,PU-11-14,IC331457,IC553510
HS	>48.0	20	IC371765,IC394232,IC394276,IC394301,IC394436,IC394448,IC394479,IC395030,IC447791,IC449258,IC449265,IC541046,IC524639,IC553505,IC553516,IC553517,IC553520,IC553532, IPU-2-43

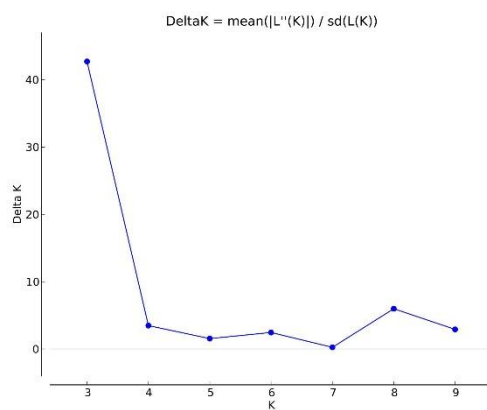
I, immune; R resistant; MR, moderately resistant; M, moderately susceptible; S, susceptible; HS, highly susceptible.



Supplementary Fig 1 Geo-reference map of studied accessions.



Supplementary Fig 2 Linear association of growth attributes.



Supplementary Fig 3 Estimation of studied population using LnP(D) derived Δk with k ranged from 2 to 10.