

Table 1. Inventory of ABC transporters of *S. miltiorrhiza* with the gene expression profiles

F	S	L	R	Pe	Ph	Xy	M0	M12	Transcript ID	Length(AA)	Topology	Homologs in <i>Arabidopsis</i>	Gene name
									SMiil_00000810	1978	TMD-NBD-TMD-NBD	AtAOH1	SmABCA1
									SMiil_00004804	946	TMD-NBD	AtATH6	SmABCA2
									SMiil_00004803	501	TMD-NBD	AtATH1	SmABCA3
									SMiil_00001472	419	TMD-NBD	AtATH12	SmABC81
									SMiil_00019034	526	TMD-NBD	AtTAP1	SmABC2
									SMiil_00015062	1354	TMD-NBD	AtTAP1	SmABC83
									SMiil_00007974	632	TMD-NBD	AtTAP1	SmABC84
									SMiil_00005657	1538	TMD-NBD-TMD-NBD	AtMDR14	SmABC85
									SMiil_00012456	480	TMD-NBD	AtMDR8	SmABC86
									SMiil_00000836	453	TMD-NBD	AtMDR1	SmABC87
									SMiil_00001025	1126	TMD-NBD-TMD-NBD	AtMDR12	SmABC88
									SMiil_00021941	747	TMD-NBD	AtATM3	SmABC89
									SMiil_00017134	1259	TMD-NBD-TMD-NBD	AtMDR11	SmABC90
									SMiil_00002175	1273	TMD-NBD-TMD-NBD	AtMDR11	SmABC91
									SMiil_00000837	893	TMD-NBD-TMD	AtMDR1	SmABC92
									SMiil_00005832	1324	TMD-NBD-TMD-NBD	AtMDR1	SmABC93
									SMiil_00016160	1250	TMD-NBD-TMD-NBD	AtMDR2	SmABC94
									SMiil_00028446	743	TMD-NBD	AtMDR9	SmABC95
									SMiil_00015239	679	TMD-NBD	AtMDR8	SmABC96
									SMiil_00021210	296	NBD	AtMDR8	SmABC97
									SMiil_00015518	1182	NBD-TMD-NBD	AtMDR13	SmABC98
									SMiil_00009650	1243	TMD-NBD-TMD-NBD	AtMDR13	SmABC99
									SMiil_00015438	1246	TMD-NBD-TMD-NBD	AtMDR13	SmABC20
									SMiil_00015440	1234	TMD-NBD-TMD-NBD	AtMDR13	SmABC21
									SMiil_00025140	1145	TMD-NBD-TMD-NBD	AtMDR13	SmABC22
									SMiil_00005447	1237	TMD-NBD-TMD-NBD	AtMDR17	SmABC23
									SMiil_00018307	1086	TMD-NBD-TMD-NBD	AtMDR7	SmABC24
									SMiil_00021209	1277	TMD-NBD-TMD-NBD	AtMDR8	SmABC25
									SMiil_00012260	784	TMD-NBD-TMD	AtMDR9	SmABC26
									SMiil_00001054	1141	TMD-NBD-TMD-NBD	AtMDR8	SmABC27
									SMiil_00001053	1105	TMD-NBD-TMD-NBD	AtMDR8	SmABC28
									SMiil_00018186	1233	TMD-NBD-TMD-NBD	AtMDR4	SmABC29
									SMiil_00020066	1294	TMD-NBD-TMD-NBD	AtMDR4	SmABC30
									SMiil_00015238	497	TMD-NBD	AtMDR17	SmABC31
									SMiil_00016361	1624	TMD-NBD-TMD-NBD	AtMRP2	SmABCC1
									SMiil_00016360	1541	TMD-NBD-TMD-NBD	AtMRP13	SmABCC2
									SMiil_00001721	1402	TMD-NBD-TMD-NBD	AtMRP11	SmABCC3
									SMiil_00002827	1103	TMD-NBD-TMD-NBD	AtMRP14	SmABCC4
									SMiil_00015789	1444	TMD-NBD-TMD-NBD	AtMRP4	SmABCC5
									SMiil_00019856	1412	TMD-NBD-TMD-NBD	AtMRP4	SmABCC6
									SMiil_00019631	1379	TMD-NBD-TMD-NBD	AtMRP3	SmABCC7
									SMiil_00028509	1041	TMD-NBD-TMD-NBD	AtMRP6	SmABCC8
									SMiil_00003691	1238	TMD-NBD-TMD-NBD	AtMRP6	SmABCC9
									SMiil_00023604	1429	TMD-NBD-TMD-NBD	AtMRP9	SmABCC10
									SMiil_00004040	1562	TMD-NBD-TMD-NBD	AtMRP5	SmABCC11
									SMiil_00000135	1447	TMD-NBD-TMD-NBD	AtMRP5	SmABCC12
									SMiil_00020247	1514	TMD-NBD-TMD-NBD	AtMRP3	SmABCC13
									SMiil_00020248	1446	TMD-NBD-TMD-NBD	AtMRP3	SmABCC14
									SMiil_00013326	1344	TMD-NBD-TMD-NBD	AtPMP2	SmABCD1
									SMiil_00009714	204	NBD	AtPMP1	SmABCD2
									SMiil_00000396	606	NBD-NBD	AtRLI2	SmABCE1
									SMiil_00014705	465	NBD	AtGCN3	SmABCF1
									SMiil_00025398	718	NBD-NBD	AtGCN4	SmABCF2
									SMiil_00023741	718	NBD-NBD	AtGCN4	SmABCF3
									SMiil_00004895	596	NBD-NBD	AtGCN1	SmABCF4
									SMiil_00025510	701	NBD-NBD	AtGCN3	SmABCF5
									SMiil_00013582	732	NBD-NBD	AtGCN5	SmABCF6
									SMiil_00000790	688	NBD-NBD	AtGCN5	SmABCF7
									SMiil_00007118	630	NBD-TMD	AtWBC24	SmABCG1
									SMiil_00014120	598	NBD-TMD	AtWBC10	SmABCG2
									SMiil_00015638	940	TMD-NBD-TMD	AtPDR13	SmABCG3
									SMiil_00027268	907	TMD-NBD-TMD	AtPDR12	SmABCG4
									SMiil_00023202	553	NBD	AtWBC8	SmABCG5
									SMiil_00026012	186	NBD	AtWBC1	SmABCG6
									SMiil_00022428	738	NBD-TMD	AtWBC1	SmABCG7
									SMiil_00017491	686	NBD-TMD	AtWBC17	SmABCG8
									SMiil_00014172	746	NBD-TMD	AtWBC1	SmABCG9
									SMiil_00028135	302	NBD	AtWBC19	SmABCG10
									SMiil_00011546	737	NBD-TMD	AtWBC3	SmABCG11
									SMiil_00027466	626	NBD-TMD	AtWBC26	SmABCG12
									SMiil_00004695	1077	NBD-TMD	AtWBC29	SmABCG13
									SMiil_00000374	1099	NBD	AtWBC29	SmABCG14
									SMiil_00010332	534	NBD-TMD	AtWBC11	SmABCG15
									SMiil_00007786	345	NBD	AtWBC26	SmABCG16
									SMiil_00022935	351	NBD	AtWBC15	SmABCG17
									SMiil_00018207	565	NBD-TMD	AtWBC15	SmABCG18
									SMiil_00015148	716	NBD-TMD	AtWBC11	SmABCG19
									SMiil_00009034	673	NBD-TMD	AtWBC11	SmABCG20
									SMiil_00009033	587	NBD-TMD	AtWBC11	SmABCG21
									SMiil_00026817	426	NBD	AtWBC27	SmABCG22
									SMiil_00018581	696	NBD-TMD	AtWBC23	SmABCG23
									SMiil_00013875	583	NBD-TMD	AtWBC23	SmABCG24
									SMiil_00025796	600	NBD-TMD	AtWBC14	SmABCG25
									SMiil_00007279	592	NBD-TMD	AtWBC9	SmABCG26
									SMiil_00000399	650	NBD-TMD	AtWBC14	SmABCG27
									SMiil_00005271	852	NBD-TMD	AtWBC14	SmABCG28
									SMiil_00011739	1395	NBD-TMD-NBD-TMD	AtPDR3	SmABCG29
									SMiil_00027726	1274	NBD-TMD-NBD-TMD	AtPDR9	SmABCG30
									SMiil_00011428	1328	NBD-TMD-NBD-TMD	AtPDR1	SmABCG31
									SMiil_00004104	1419	NBD-TMD-NBD-TMD	AtPDR4	SmABCG32
									SMiil_00023329	1469	NBD-TMD-NBD-TMD	AtPDR4	SmABCG33
									SMiil_00003858	1734	NBD-NBD-TMD-NBD-TMD	AtPDR12	SmABCG34
									SMiil_00023314	1415	NBD-TMD-NBD-TMD	AtPDR12	SmABCG35
									SMiil_00021602	1371	NBD-TMD-NBD-TMD	AtPDR12	SmABCG36
									SMiil_00010985	1487	NBD-TMD-NBD-TMD	AtPDR8	SmABCG37
									SMiil_00023429	1416	NBD-TMD-NBD-TMD	AtPDR12	SmABCG38
									SMiil_00013062	1403	NBD-TMD-NBD-TMD	AtPDR12	SmABCG39
									SMiil_00010949	1397	NBD-TMD-NBD-TMD	AtPDR12	SmABCG40
									SMiil_00027269	541	NBD	AtPDR12	SmABCG41
									SMiil_00005774	1614	NBD-TMD-NBD-TMD	AtPDR13	SmABCG42
									SMiil_00005773	1413	NBD-TMD-NBD-TMD	AtPDR13	SmABCG43
									SMiil_00004712	1461	NBD-TMD-NBD-TMD	AtPDR13	SmABCG44
									SMiil_00016963	1446	NBD-TMD-NBD-TMD	AtPDR6	SmABCG45
									SMiil_00020022	1444	NBD-TMD-NBD-TMD	AtPDR13	SmABCG46
									SMiil_00015105	268	NBD	AtNAP14	SmABC11
									SMiil_00001364	206	NBD	AtNAP10	SmABC12
									SMiil_00006570	287	NBD	AtNAP2	SmABC13
									SMiil_00009816	294	NBD	AtNAP7	SmABC14
									SMiil_00003192	364	NBD	AtNAP11	SmABC15
									SMiil_00017077	268	NBD	AtNAP13	SmABC16
									SMiil_00017076	267	NBD	AtNAP13	SmABC17
									SMiil_00004858	261	NBD	AtNAP13	SmABC18
									SMiil_00002108	256	NBD	AtNAP3	SmABC19
									SMiil_00026458	260	NBD	AtNAP3	SmABC10

The relative gene expression levels of these ABC transporters in different organs/tissues of *S. miltiorrhiza* were represented by color scales, from red to yellow and from yellow to blue, indicating the order of gene expression levels from high to low. Organs/tissues for detecting gene expression include F (flower), S (stem), L (leaf), R (root), Pe (periderm), Ph (phloem), Xy (xylem), M0 (CK of the leaves), M12 (MeJA treatment on the leaves for 12 hours). All expression data were obtained from the transcriptome data in our previous studies [23,24]. The column names from left to right represent the transcript ID, amino acid (AA) length, domain organization, homologs in *Arabidopsis*, and the gene name of subfamilies. NBD: nucleotide binding domain, TMD: transmembrane domain.