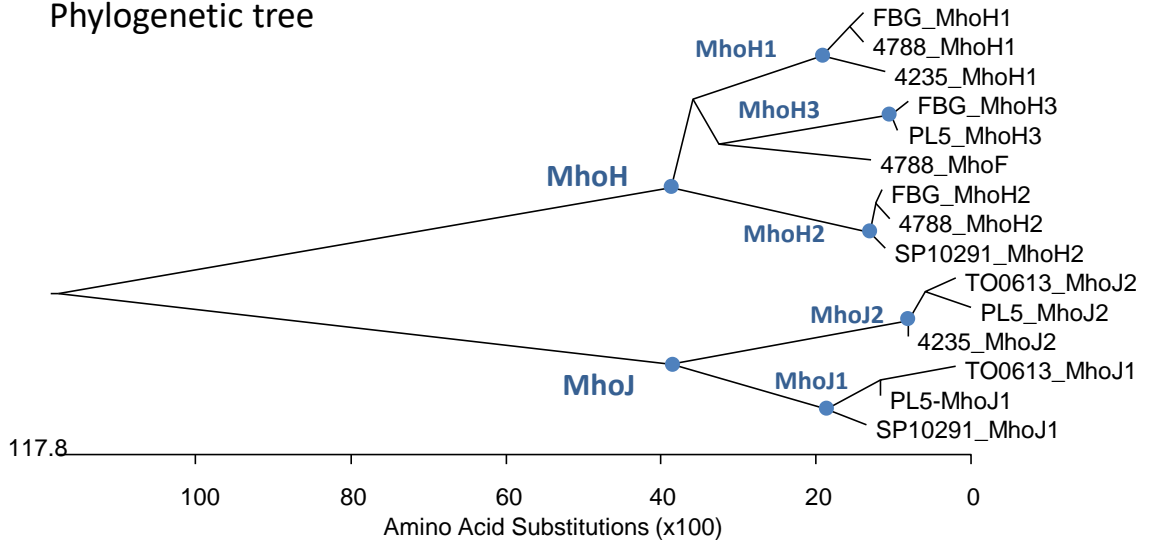


### A. Phylogenetic tree



### B. TAL-effector motif

440	450	460	470	480	490
QGLDVSQYTHLASK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	-TTQSEKSLTK--
QGLDISQYTHLASK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	-ESQSKSHSLTK
QGLDISQYTHLASK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	-DTQSKSHSLTK.
KGLDLSKYTHLASK	SSLSDFDKTP	TDLQDSK	VINEY	NKSRSQSNQ	-NTKLESKNINRCI
QGLDVSKPTQLVSK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-HSQPNQNK	TSESKNINRCI
HGLDVSKPTQLVSK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-HSQPNQNK	TSESKNINRCI
QGLDVSKPTQLVSK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-HSQPNQNK	TSESKNINRCI
N-LDPNE----	SSKSSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	-DTQSKSRKL
N-LDPNE----	SSKSSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	-DTQSKSRKL
QGLDVSKHTHLASK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	-DTQSKSRKL.
HGLNVSKHTHLAPK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	DTQSK-SHSLTK
HGLDVSQYTHLASK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-CPQSNKT	TETLESKNINKCI
HGLDVSKPTHLASK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	DTQSK-SHSLTK
QCLDLSKYTHLTSK	SSLSDFDKTP	TDLQDSK	VINEY	NKSRSQSNQNK	TLE-SKNINRCI
QGLDISKYTQLSSK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	DTQSK-SHSLTK
KGLDISQYQQLSSK	SSLSDFDKTP	TDLQDSK	VINEY	NKS-SHTPS	ESQSK-SHSLTK

- FBG\_MhoH1
- 4788\_MhoH1
- 4235\_MhoH1
- FBG\_MhoH2
- 4788\_MhoH2
- SP10291\_MhoH2
- FBG\_MhoH3
- PL5\_MhoH3
- 4788\_MhoF
- TO0613\_MhoJ2
- PL5\_MhoJ2
- 4235\_MhoJ2
- TO0613\_MhoJ1
- PL5\_MhoJ1
- SP10291\_MhoJ1

### C. Percent Identity

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	█	98.2	93.3	77.3	77.3	77.3	77.6	77.8	67.4	32.5	31.3	32.9	49.1	51.5	18.4	1	FBG_MhoH1
2	3.5	█	92.9	76.9	76.9	76.9	77.6	77.8	68.2	32.3	31.0	32.7	49.2	51.3	18.2	2	4788_MhoH1
3	13.1	13.6	█	78.8	78.6	78.8	76.0	76.2	66.2	30.9	32.4	31.3	52.5	50.1	17.0	3	4235_MhoH1
4	59.4	60.2	53.3	█	98.6	97.8	75.6	75.8	65.2	31.9	33.4	32.5	50.7	50.5	17.2	4	FBG_MhoH2
5	59.4	60.2	54.0	2.7	█	98.0	75.6	75.8	65.0	31.7	33.2	32.3	50.1	49.9	16.8	5	4788_MhoH2
6	59.4	60.2	53.3	4.2	3.8	█	76.4	76.6	65.4	31.1	32.8	31.7	50.7	50.3	17.2	6	SP10291_MhoH2
7	46.0	46.0	51.0	52.5	52.5	49.6	█	98.4	70.0	31.0	30.4	31.4	47.2	48.7	17.9	7	FBG_MhoH3
8	45.3	45.3	50.3	51.8	51.8	48.8	3.0	█	70.2	31.2	30.6	31.6	47.6	49.1	18.3	8	PL5_MhoH3
9	48.0	45.3	51.6	55.3	56.1	54.6	43.5	42.9	█	29.9	28.5	29.9	39.1	40.2	15.0	9	4788_MhoF
10	207.0	210.0	234.0	218.0	222.0	234.0	244.0	239.0	200.0	█	92.4	96.7	48.5	51.5	55.4	10	TO0613_MhoJ2
11	231.0	234.0	211.0	198.0	201.0	209.0	260.0	254.0	223.0	9.9	█	94.5	49.3	48.9	54.0	11	PL5_MhoJ2
12	200.0	203.0	226.0	208.0	211.0	222.0	236.0	231.0	200.0	4.2	7.0	█	48.9	51.9	55.8	12	4235_MhoJ2
13	237.0	232.0	182.6	209.0	220.0	209.0	238.0	229.0	232.0	77.6	74.0	75.8	█	95.1	55.6	13	TO0613_MhoJ1
14	195.0	198.0	216.0	213.0	224.0	216.0	213.0	206.0	217.0	65.7	75.8	64.1	8.2	█	58.9	14	PL5_MhoJ1
15	197.0	200.0	218.0	219.0	228.0	219.0	212.0	206.0	204.0	51.4	54.4	50.4	19.6	13.3	█	15	SP10291_MhoJ1