

**Table S4.** CitMule Motif analyses with InterProScan**Sequence "CitMule\_1" crc64 checksum: F0DF841C7DEFB295 length: 795 aa.**

InterPro IPR004330 FAR1 DNA binding domain			
method	AccNumber	shortName	location
HMMPfam	PF03101	FAR1	T[34-118]
	6.7e-15		

InterPro IPR006564 Zinc finger, PMZ-type			
Molecular Function: zinc ion binding (GO:0008270)			
method	AccNumber	shortName	location
HMMSmart	SM00575	plant mutator transposase zinc finger	T[532-559]
	2.8e-08		

InterPro IPR007527 Zinc finger, SWIM-type			
Molecular Function: zinc ion binding (GO:0008270)			
method	AccNumber	shortName	location
HMMPfam	PF04434	SWIM	T[523-554]
	1.6e-08		
ProfileScan	PS50966	ZF_SWIM	T[521-557]
	11.140		

InterPro IPR018289 MULE transposase domain			
method	AccNumber	shortName	location
HMMPfam	PF10551	MULE	T[245-335]
	1.9e-27		

**Sequence "CitMule\_2" crc64 checksum: 056D9725146CDB81 length: 795 aa.**

InterPro IPR004330 FAR1 DNA binding domain			
method	AccNumber	shortName	location
HMMPfam	PF03101	FAR1	T[34-118]
	4.6e-15		

InterPro IPR006564 Zinc finger, PMZ-type			
Molecular Function: zinc ion binding (GO:0008270)			
method	AccNumber	shortName	location
HMMSmart	SM00575	plant mutator transposase zinc finger	T[532-559]
	2.8e-08		

InterPro IPR007527 Zinc finger, SWIM-type			
Molecular Function: zinc ion binding (GO:0008270)			
method	AccNumber	shortName	location
HMMPfam	PF04434	SWIM	T[523-554]
	1.6e-08		
ProfileScan	PS50966	ZF_SWIM	T[521-557]
	11.140		

InterPro IPR018289 MULE transposase domain			
method	AccNumber	shortName	location
HMMPfam	PF10551	MULE	T[245-335]
	7.3e-28		

**Sequence "CitMule\_3" crc64 checksum: C9BC82AC2C535D52 length: 805 aa.**

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InterPro method	IPR004330 AccNumber	FAR1 DNA binding domain shortName	location
HMMPfam	PF03101 6.8e-15	FAR1	T[34-118]

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InterPro method	IPR006564 AccNumber	Zinc finger, PMZ-type shortName	location
Molecular Function: zinc ion binding (GO:0008270)			
HMMSmart	SM00575 2.8e-08	plant mutator transposase zinc finger	T[532-559]

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InterPro method	IPR007527 AccNumber	Zinc finger, SWIM-type shortName	location
Molecular Function: zinc ion binding (GO:0008270)			
HMMPfam	PF04434 1.9e-08	SWIM	T[526-554]
ProfileScan	PS50966 11.214	ZF_SWIM	T[521-557]

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InterPro method	IPR018289 AccNumber	MULE transposase domain shortName	location
HMMPfam	PF10551 2e-27	MULE	T[245-335]

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**Sequence "CitMule\_4" crc64 checksum: 17E170A04BCBEEAB length: 805 aa.**

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InterPro method	IPR004330 AccNumber	FAR1 DNA binding domain shortName	location
HMMPfam	PF03101 6.8e-15	FAR1	T[34-118]

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InterPro method	IPR006564 AccNumber	Zinc finger, PMZ-type shortName	location
Molecular Function: zinc ion binding (GO:0008270)			
HMMSmart	SM00575 2.8e-08	plant mutator transposase zinc finger	T[532-559]

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InterPro method	IPR007527 AccNumber	Zinc finger, SWIM-type shortName	location
Molecular Function: zinc ion binding (GO:0008270)			
HMMPfam	PF04434 1.7e-08	SWIM	T[523-554]
ProfileScan	PS50966 11.140	ZF_SWIM	T[521-557]

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InterPro method	IPR018289 AccNumber	MULE transposase domain shortName	location
HMMPfam	PF10551 1.2e-27	MULE	T[245-335]

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