

Product datasheet for MG214430

Phactr1 (NM_001005748) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

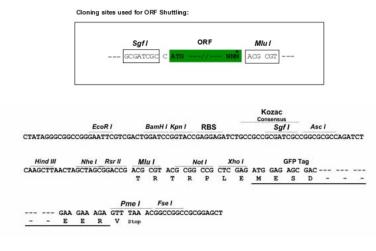
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Product Type:	Expression Plasmids
Product Name:	Phactr1 (NM_001005748) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phactr1
Synonyms:	9630030F18Rik; Rpel1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214430 representing NM_001005748 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTATCTGCTAGGGCCGTGGAGCTCACCGGCCCCAGGAGGATATGACATGGTCCAAAAACTTTTCTTGG ATTTTTTCCGTAGGCGGCTGAGCCAGAGACCAACTGCAGAGGAACTGGAACAGAGGAACATTTTGAAGCC TCGGAATGAACAAGAAGAACAGGAGGAGGAGAAGCGGGAAATCAAGAGGAGGCTGACTCGCAAGCTCAGCCAA AGGCCCACAGTGGAAGAACTCCGGGAGAGGAAGATCCTTATCCGCTTCAGTGACTACGTGGAAGTGGCAG ATGCCCAAGACTATGACCGAAGGGCAGACAAGCCATGGACCCGGCCTCACCGCTGCAGACAAAGCTGCCAT TCGGAAGGAACTCCAATGAGTTTAAAAGTACCGAGATGGAAGTCCACGAGTTAAGTAGACACTTAACCAGG TTTCATCGACCT
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>MG214430 representing NM_001005748 Red=Cloning site Green=Tags(s)
	MYLLGPWSSPAPGGYDMVQKLFLDFFRRRLSQRPTAEELEQRNILKPRNEQEEQEEKREIKRRLTRKLSQ RPTVEELRERKILIRFSDYVEVADAQDYDRRADKPWTRLTAADKAAIRKELNEFKSTEMEVHELSRHLTR FHRP
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul

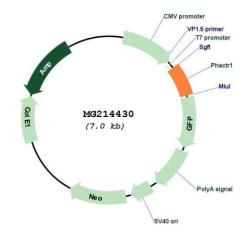


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Cloning Scheme:



Plasmid Map:



ACCN:	NM_001005748
ORF Size:	432 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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Gene Phactr	1 (NM_001005748) Mouse Tagged ORF Clone – MG214430
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 001005748.2</u> , <u>NP 001005748.1</u>
RefSeq Size:	3849 bp
RefSeq ORF:	435 bp
Locus ID:	218194
Cytogenetics:	13 A4
Gene Summary:	Binds actin monomers (G actin) and plays a role in multiple processes including the regulation of actin cytoskeleton dynamics, actin stress fibers formation, cell motility and survival, formation of tubules by endothelial cells, and regulation of PPP1CA activity. Involved in the regulation of cortical neuron migration and dendrite arborization (PubMed:30256902). [UniProtKB/Swiss-Prot Function]

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