

Product datasheet for **MR210087L3V**

Phactr4 (NM_175306) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Phactr4 (NM_175306) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Phactr4
Synonyms:	3110001B12Rik; AI527228; AW495572; C330013F19Rik; mKIAA4120; N28169
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_175306
ORF Size:	2082 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210087).
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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_175306.4 , NP_780515.2
RefSeq Size:	4585 bp
RefSeq ORF:	2085 bp
Locus ID:	100169
UniProt ID:	Q501J7
Cytogenetics:	4 D2.3


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Gene Summary:

Regulator of protein phosphatase 1 (PP1) required for neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. Acts as an activator of PP1 by interacting with PPP1CA and preventing phosphorylation of PPP1CA at 'Thr-320'. During neural tube closure, localizes to the ventral neural tube and activates PP1, leading to down-regulate cell proliferation within cranial neural tissue and the neural retina. Also acts as a regulator of migration of enteric neural crest cells (ENCCs) by activating PP1, leading to dephosphorylation and subsequent activation of cofilin (COF1 or COF2) and repression of the integrin signaling through the RHO/ROCK pathway.[UniProtKB/Swiss-Prot Function]