

## Product datasheet for **RC206775L4V**

### Ephexin 1 (NGEF) (NM\_019850) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Ephexin 1 (NGEF) (NM_019850) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Ephexin 1
Synonyms:	ARHGEF27; EPHEXIN
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_019850
ORF Size:	2130 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC206775).
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. <a href="#">More info</a>
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:	<a href="#">NM_019850.1</a> , <a href="#">NP_062824.1</a>
RefSeq Size:	3184 bp
RefSeq ORF:	2133 bp
Locus ID:	25791
UniProt ID:	<a href="#">Q8N5V2</a>
Cytogenetics:	2q37.1
Protein Pathways:	Axon guidance
MW:	82.5 kDa



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**Gene Summary:**

Acts as a guanine nucleotide exchange factor (GEF) which differentially activates the GTPases RHOA, RAC1 and CDC42. Plays a role in axon guidance regulating ephrin-induced growth cone collapse and dendritic spine morphogenesis. Upon activation by ephrin through EPHA4, the GEF activity switches toward RHOA resulting in its activation. Activated RHOA promotes cone retraction at the expense of RAC1- and CDC42-stimulated growth cone extension (By similarity).[UniProtKB/Swiss-Prot Function]