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Product datasheet for RC222554L1V

D4S234E (NSG1) (NM_014392) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	D4S234E (NSG1) (NM_014392) Human Tagged ORF Clone Lentiviral Particle
Symbol:	D4S234E
Synonyms:	D4S234; D4S234E; NEEP21; P21
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_014392
ORF Size:	555 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC222554).`
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_014392.2
RefSeq Size:	1517 bp
RefSeq ORF:	558 bp
Locus ID:	27065
UniProt ID:	P42857
Cytogenetics:	4p16.3
Protein Families:	Druggable Genome, Transmembrane
MW:	20.7 kDa

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Gene Summary: Plays a role in the recycling mechanism in neurons of multiple receptors, including AMPAR, APP and L1CAM and acts at the level of early endosomes to promote sorting of receptors toward a recycling pathway. Regulates sorting and recycling of GRIA2 through interaction with GRIP1 and then contributes to the regulation of synaptic transmission and plasticity by affecting the recycling and targeting of AMPA receptors to the synapse (By similarity). Is required for faithful sorting of L1CAM to axons by facilitating trafficking from somatodendritic early endosome or the recycling endosome (By similarity). In an other hand, induces apoptosis via the activation of CASP3 in response to DNA damage (PubMed:20599942, PubMed:20878061).[UniProtKB/Swiss-Prot Function]