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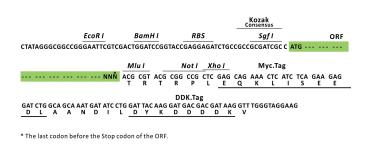
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC222554L3

D4S234E (NSG1) (NM_014392) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D4S234E (NSG1) (NM_014392) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	D4S234E
Synonyms:	D4S234; D4S234E; NEEP21; P21
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222554).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	<i>Sgf I</i> ORF <i>Mlu I</i> GCG ATC GC C <mark>ATG// NNŇ</mark> [ACG CGT]



ACCN: ORF Size: NM_014392 555 bp



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ORIGENE D4S234E (NSG1) (NM_014392) Human Tagged Lenti ORF Clone – RC222554L3	
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.
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 014392.2</u>
RefSeq Size:	1517 bp
RefSeq ORF:	558 bp
Locus ID:	27065
UniProt ID:	<u>P42857</u>
Cytogenetics:	4p16.3
Protein Families:	Druggable Genome, Transmembrane
MW:	20.7 kDa
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, BubMed:20878061) [UniDrat/(B/Gwing Dret Sungtion]

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PubMed:20878061).[UniProtKB/Swiss-Prot Function]