

## Product datasheet for **SC115028**

### **D4S234E (NSG1) (NM\_014392) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	D4S234E (NSG1) (NM_014392) Human Untagged Clone
Tag:	Tag Free
Symbol:	D4S234E
Synonyms:	D4S234; D4S234E; NEEP21; P21
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115028 sequence for NM_014392 edited (data generated by NextGen Sequencing) ATGGTGAAGTTGGGGAACAATTTTCGAGAGAAGGGCACCAAGCAGCCGCTGCTGGAGGAT GGCTTCGACACCAATCCCTGATGACGCCCTCGATGTCAATCAGCTGCAGTTCCCGCCC CCGGATAAGGTGGTCGTGAAAATAAGACCGAGTATGAACCTGACCGCAAGAAAGGGAAA GCACGTCCTCCCAAAATTGCTGAGTTCACCGTCAGCATCACGGAGGGTGTACCGAGAGG TTAAGGTCTCCGTGTTGGTCTCTTCGCCCTGGCCTTCCTCACCTGCGTCGTCTTCCTG GTTGTCTACAAGGTGTACAAGTATGACCGCGCCTGCCCGATGGGTTTCGTCCTCAAGAAC ACCCAGTGCATCCCAGAAGGCTTGGAGAGCTACTACGCGGAGCAAGACTCCAGTGCCCGG GAGAAAATTTACACAGTCATAAACCACTACAACCTGGCCAAGCAGAGCATCACGCGCTCC GTATCGCCCTGGATGTGAGTTCTGTGAGAGAGAAGCTGTCCGAGCAGGAGACTGAAGCG GCTGAGAAGTCAGCTTAG
	Clone variation with respect to NM_014392.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014392 unedited  
 AGAAATTGTATACGACTCCTATAGGCGGCCCGGAATTCGCACGAGGGGCGGCGCGCGA  
 GGAGGAGGGAGCGGCCGTGGAGCCCAATCGTTTCGCTCCCCTTCCCGGGTCCGCGCGCGGC  
 GCCGCCTCCGCCATTGCTGCGAGCAGGAGCAGGAGACGCGGAGCTCGGAGCGCTGAGCTG  
 ACCTGCCGGAGCCGGGCTGGGCTGCAGCCTCGGAGCTCCCGAACGATGGTGAAGTTGG  
 GGAACAATTCGCAGAGAAGGGCACCAAGCAGCCGCTGCTGGAGGATGGCTTCGACACCA  
 TTCCCCTGATGACGCCCTCGATGTCAATCAGCTGCAGTTCGCCGCCCGGATAAGGTGG  
 TCGTGAAAACCTAAGACCGAGTATGAACCTGACCGCAAGAAAGGGAAAGCACGTCCTCCCC  
 AAATTGCTGAGTTCACCGTCAGCATCACGGAGGGTGTACCGAGAGGTTTAAAGTCTCCG  
 TGTTGGTCTCTTCGCCCTGGCCTTCTCACCTGCGTCTCTTCTGGTTGTCTACAAGG  
 TGTACAAGTATGACCGCGCCTGCCCGATGGGTTTCGCTCTCAAGAACACCCAGTGCATCC  
 CAGAAGGCTTGGAGAGCTACTACGCGGAGCAAGACTCCAGTGCCCGGAGAAATTTTACA  
 CAGTCATAAACCACTACAACCTGGCCAAGCAGAGCATCACGCGCTCCGTATCGCCCTGGA  
 TGTCAGTTCTGTCAGAAGAGAAGCTGTCCGAGCAGGAGACTGAAGCGGCTGAGAAGTCAG  
 CTTAGCGGGATGGGCGAGTTCCTTACATGTGTCACCTGCNAATACANAGGGACTNTGAG  
 GGNACATTNCATAAATATAATACTGATACTTTANAGGTAATCATTNNACGNNGCANTGCT  
 NCTGTTTGCTAATGGCTGCTTGGAAATAANAACCTGCTGCCGACCACCACGGNCATANAAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014392 unedited  
 GACCGCGCCGCAATCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTAACTCATGTTCTTTATTTGCACAAAGGGAAATGTCAAAGTTACATGT  
 AAATGAATTCACAGTCAATAAAGTCCACGTTTACCTGAAATACAGGCTCGGCCTTTGCA  
 CTGGGCGCACACGGGCTTCACTTGGGTCTATTCAAATGCCAGGGAAACTTTGGCACTGA  
 TTTATTGCTCTTGAGTCATTTCCACAGCTTAACACCACCTTTTCAACACACCCCTTTG  
 ATGCACACCGCTGCGCCAAGGTCACGGTCTGTGTCTCAAACACCTTGATGAAAAAATA  
 CATTTTCTGTCTTAAAAGCACATTTTCAAGAAACAAGAGTGGCGCTGACCACGGTCACCAT  
 GCCTGTTCAACACATTTTCACTATTTGGCGTTTATTTCTGATCTAAAAAACTGAAAC  
 TTTTGACACGTACCCCAAAAACAACCTTTCAATAACATAGAAGAAATGTCTGCGAATGT  
 CTTTTCTATTTGTTTTACACACTTAGTTCATCTAACTGGCAGTTTTGTAAACATAAACT  
 TAATATCAAGATTCAAACCTGGAACAATTTCTTACAAAGATTGTGAGTTGAAATTTGTCA  
 TTTTGTGTCACGGTGCACACCCAGTCCCCACCCACCCACACCTTTCCTGCTGT  
 TTCCACATCAAGGATATCAGTTTCATAAATAAAATTAAGTAGCTAAGGCTACCAGAA  
 ATACATTTCCACTTTCCACCAGCTATTTCTTAAAACTATGGGGCTTTTGTGCAATTT  
 ATTCTATAAAGTGAACCGAGGGCAGGGGGTTTTTTCTTANNCATACAGAGCAACAACCT  
 TGGGGGAAGTCTGCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014392

**Insert Size:**

2560 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. 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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014392.2</a> , <a href="#">NP_055207.1</a>
<b>RefSeq Size:</b>	1517 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	27065
<b>UniProt ID:</b>	<a href="#">P42857</a>
<b>Cytogenetics:</b>	4p16.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR compared to variant (3). Variants 1, 2, and 3 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>