

## Product datasheet for **SC215874**

### **D4S234E (NSG1) (NM\_001040101) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	D4S234E (NSG1) (NM_001040101) Human 3' UTR Clone
Symbol:	D4S234E
Synonyms:	D4S234; D4S234E; NEEP21; P21
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001040101
Insert Size:	1653 bp



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**Insert Sequence:** >SC215874 3'UTR clone of NM\_001040101  
 The sequence shown below is from the reference sequence of NM\_001040101. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAGACTGAAGCGGCTGAGAAGTCAGCTTAGCGGGATGGCAAGTTCCTTACAATGTGTCACCTTGCAAAAT
AACAAAGGGACTTTGAGGGACATTTCTTAAATATAAATTACTGATACTTTAGAGTTACTCATTTACGG
TGCAATTGCTTCTGTTTCTAATGCTGCTTTGCAATAAACTTCTGCTGCCGACCACCCACGGGCATAAAA
ATCAAGTGCATTTAGCATTGCCTAAAGAGCTCTGACACCACTTTTCATGTTAAGATCTTCATTTAGCT
CCTTTACTGGGATTTATTGGATGCTGTAAAAAATAAATTTACTGATATGCGAAGGGTTTGGATCT
CAGATAAATGCATTTTGTGAATTGATTTTCTGAACCGACCTGCTGTCTGCAAACCTTCTCCATAGC
CATATCTAGAGTGATCTCTCGTGTGCTAAGAGCAAGCCTACTTCGCATTTCTTCTCGGCCATCAGCG
GGTAACAGTGCTGACTGTGCCAAGGTGCACTGTAGTAAGTAAGTGCCATAGAGAACGAGGAAAAAGAC
CCCCCACCCCTCCCTGTGCTGACTCCTGAGTCGGGGTGGGACGGCCCTGCAATGTGGCAGGCTCGGTG
TGGATTGACTACTCCCTCCCTCTGACTCTGGCATCTTGGTAAGGAGGGAGGGGACCACCCATCTGGG
TGGAGACAGCTGGGGTTTGTCCAGTGTGTAGACTGGCAGAGCATGTGAGGGAGAGGGCTGGGAAGA
GACGGCCCTGGGCCCGTGGGTGCGAAGTCTCCCTGCAGGTAGTCTGTCTGTGCTGTGATGTGCTGAT
AGGAAAGAGCCCCACTGGCCCTCTGGTCACTTCTATTATGAATAAATTTGCACCAATAGCCCCATTA
GTTTTTAAAGAAATGAGCTGGGTGGGAAAAGTGGAAATGTAATTTCTGGTAAGCTTGAGCTACTTTAAT
TTTTATTCTATGAAACTGATATCCCTTGATGTGGGAAACAGGCAGGAAAGGCTGTGGGGTGGGGTGGG
GGACTGGTGTGGCACCGTGCAAAACAAAATGACAAATTTCAACTACAATCTTTGTAAAGAAATTTGTTCC
AGTTTGAATCTTGATATTAAGTTTATGTTTACAAAACCTGCCAGTTAGATGAACTAAGTGTGTAACA
AATAGAAAAGACATTCGACAGACATTTCTTCTATGTTATTGAATGTGTTTCTGGTGTACGTGTCAAA
AGTTTCAGTTTTTTAGATCAGAAAATAACGACAAATAGTGTGAGATGTGTTGTGAACAGGCATGGTGAC
CGTGGTACAGGCCACTTGTGTTTCTGAAATGTGCTTCTAAGACAGAAAATGATTTTTCTCATCAAGGG
TGTCTGGAGACACAGACCGTGACCTTGGCGCAGCGGTGTGCATCAGAGGCGTGTGCTGAGAAGGGTGGT
GTTAAGCTGTGAAAAATGACTCAAGAGCAATAAATCAGTGCCAAAGCTTCCCTGCGCATCTGAATAGAC
ACAAGTGAAGCCCGTGTGCGCACAGTGCAGAGGCCGAGCCTGATTTCCAGGTAGACGTGGACTTTATT
GACTGTGAATTCATTTACATGTAACCTTCTGACATTTCACTCTGTGCAAAATAAAGAACATGAGGATA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTTCGATTCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** Sgfl-Mlul

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001040101.2](#)

**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]

**Locus ID:** 27065

**MW:** 61.6