

## Product datasheet for TP322554

### D4S234E (NSG1) (NM\_014392) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human DNA segment on chromosome 4 (unique) 234 expressed sequence (D4S234E), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222554 representing NM_014392 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MVKLGNNFAEKGTKQPLLEDGFDTIPLMTPLDVNQLQFPPDKVWVWTKTEYEPDRKKKGARPPQIAEFT VSITEGVTERFKVSVLVLFALAF LTCVWFLVYKYDRACPDGFVLKNTQCIPEGLSYAEQDSSAR EKFYTVINHYNLAKQSITRSVSPWMSVLSEEKLSSEQETEAEEKSA  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	20.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_055207</a></u>
Locus ID:	27065
UniProt ID:	<u><a href="#">P42857</a></u> , <u><a href="#">B2R5R8</a></u>



[View online »](#)

RefSeq Size: 1517

Cytogenetics: 4p16.3

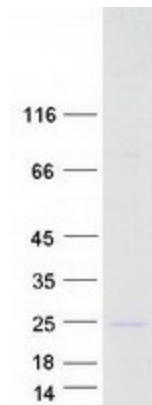
RefSeq ORF: 555

Synonyms: D4S234; D4S234E; NEEP21; P21

**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]

**Protein Families:** Druggable Genome, Transmembrane

### Product images:



Coomassie blue staining of purified NSG1 protein (Cat# TP322554). The protein was produced from HEK293T cells transfected with NSG1 cDNA clone (Cat# [RC222554]) using MegaTran 2.0 (Cat# [TT210002]).