

## Product datasheet for PH322554

### D4S234E (NSG1) (NM\_014392) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	D4S234E MS Standard C13 and N15-labeled recombinant protein (NP_055207)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222554
Predicted MW:	20.7 kDa
Protein Sequence:	>RC222554 representing NM_014392 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MVKLGNNFAEKGTKQPLLEDGFDTIPLMTPLDVNQLQFPPDPKVVVVKTKTEYEPDRKKGKARPPQIAEFT VSITEGVTERFKVSVLVLFALAFALTCVVFVYKVKYDRACPDGFVLKNTQCIPLEGLESYYAEQDSSAR EKFYTVINHYNLAKQSITRSVSPWMSVLSEEKLESEQETAAEKSA  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_055207</a>
RefSeq Size:	1517
RefSeq ORF:	555
Synonyms:	D4S234; D4S234E; NEEP21; P21
Locus ID:	27065
UniProt ID:	<a href="#">P42857</a> , <a href="#">B2R5R8</a>



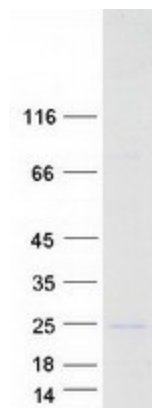
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**Cytogenetics:** 4p16.3

**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]).