

## Product datasheet for PH317516

### Gemin 5 (GEMIN5) (NM\_015465) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | GEMIN5 MS Standard C13 and N15-labeled recombinant protein (NP_056280) |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC217516   |
| Predicted MW:                         | 168.4 kDa  |
| Protein Sequence:                     | >RC217516 representing NM_015465<br>Red=Cloning site Green=Tags(s)     |

MGQEPRTLPPSPNWCARCSDAVPGGLFGFAARTSVFLVRVGPAGE SPGTPPFRVIGELVGHTERVSGF  
TFSHHPGQYNLCATSSDDGTVKIWDVETKTVVTEHALHQHTISTLHWSRVDLIVSGDEKGVVFCYWFN  
RNDSQLHFIEPRIFCLTCSPHHEDLVAIGYKDGIVVIIDISKKGEVIHRLRGHDDEIHSIAWCPLPGED  
CLSINQEETSEEAETNGNAVAQAPVTGKCYLATGSKDQTIIRIWSCSRGRGVMILKLPFLKRRGGGIDPT  
VKERLWLTWHWSNQPTQLVSSCFGGELLQWDLTQSWRRKYTLFSASSEGNHSRIVFNLCPQTEDDKQ  
LLLSTSMDRDVKWDIATLECSWTLPSLGGFAYSLAFSSVDIGSLAIGVGDGMIRVWNTLSIKNNYDVKN  
FWQGVKSKVTALCWHPTKEGCLAFGTDDGKVLG YDTYSNKPPQISSTYHKKTVYTLAWGPPVPPMSLGGE  
GDRPSLALYSCGEGIVLQHNPWKL SGEAFDINKLIRD TNSIKYKLPVHTEISWKADGKIMALGNEDGSI  
EIFQIPNLKLICTIQQHKL VNTISWHHEHGSQPELSYLMASGSNNAVIYVHNLKTVIESSPESPTITE  
PYRTL SGHTAKITSVAWSPHHGRLVSASYDGT AQVWDALREEPLCNFRGHRGRLLCVAWSPLDPDCIYS  
GADDFCVHKWLTSMQDHSRPPQGGKKSIELEKKRLSQPKAKPKKKKPTLRTPVKLESIDGNEEESMKENS  
GPVENGVSQEGEEQAREPELPCGLAPAVSREPVICTPVSSGFEKSKVTINNKVILLKKEPPKEKPETLI  
KKRKARSLLPLSTSLDHRKEELHQDCLVLATAKHSREL NEDVSADVEERFHLGLFDRATLYRMIDIEG  
KGHLENGHPELFHQMLWKGD LKGVLQTA AER GELTDNLVAMAPAAGYHVWLWAVEAFKQLCFQDQYVK  
AASHLLSIHKVYEAVELLKSNHFYREAI AIAKARLRPEDPVLKDYLSWGTVLERDGHYAVAACKYL GAT  
CAYDAAKVLA KKGDAA SLRTAAELAAIVGEDEL SASLALRCAQELLLANNWVGAQEALQHESLQGQRLV  
FCLLELLSRHLEEKQLSEGKSSSYHTWNTGTEGPFVERVTAVWKSIFSLDTP EQYQEAFAKQLQNIKYP  
ATNNTPAKQLLLHICHDLTLAVLSQQMASWDEAVQALLRAVRSYDSGSFTIMQEVYSAFLPDGCDHLRD  
KLGDHQSPATPAFKSLEAFFLYGRLYEFWWSLSRPCPNSSVWVRAGHRTL SVEPSQQLDTASTEETDPET  
SQPEPNRSELDLRL TEEGERMLSTFKELFSEKHASLQNSQRTVAEVQETLAEMIRQHQS LCKSTANG  
PDKNEPEVEAEQPLCSSQSQCKEEKNEPLSLPELTKRLTEANQRMAKFPESIKAWPFPDVL ECLVLLLI  
RSHFPGCLAQEMQQQAQELLQKYGNTKYRRHCQTFCM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

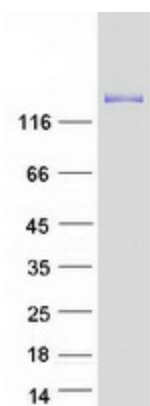
|         |   |
|---------|---|
| Tag:    | C-Myc/DDK   |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |



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|                   |  |
|-------------------|--|
| 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_056280</a>  |
| RefSeq Size:      | 4527   |
| RefSeq ORF:       | 4524   |
| Synonyms:         | GEMIN-5; NEDCAM  |
| Locus ID:         | 25929  |
| UniProt ID:       | <a href="#">Q8TEQ6</a> , <a href="#">Q58EZ8</a>  |
| Cytogenetics:     | 5q33.2   |
| Summary:          | This gene encodes a WD repeat protein that is a component of the survival of motor neurons (SMN) complex. The SMN complex plays a critical role in mRNA splicing through the assembly of spliceosomal small nuclear ribonucleoproteins (snRNPs), and may also mediate the assembly and transport of other classes of ribonucleoproteins. The encoded protein is the snRNA-binding component of the SMN complex. Dysregulation of this gene may play a role in alternative mRNA splicing and tumor cell motility. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011] |
| Protein Families: | Druggable Genome   |

### Product images:



Coomassie blue staining of purified GEMIN5 protein (Cat# [TP317516]). The protein was produced from HEK293T cells transfected with GEMIN5 cDNA clone (Cat# [RC217516]) using MegaTran 2.0 (Cat# [TT210002]).