

## Product datasheet for TP525358

### Grn (NM\_008175) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse granulin (Grn), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR225358 representing NM_008175 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MPPREPGRRRRQTMWVLMWSWLAFAAGLVAGTQCPDGQFCPVACCLDQGGANYSCCNPLLDTWPRITSHHL DGSCQTHGHCPAGYSCLLTVSGTSSCCPFSKGVSCGDGYHCCPQGFHCSADGKSCFQMSDNPLGAVQCPG SQFECPSATCCIMVDGSWGCCPMPQASCCEDRVHCCPHGASCDLVHTRCVSPTGHTLLKKFPAQKTNR AVSLPFSVPCDAKTQCPDDSTCCCLPTGKYGCCPMPNAICSDHLHCCPQDTVCDLIQSKLSKNYTTD LLTKLPGYPVKEVKCDMEVSCPEGYTCRLNTGAWGCCPFAKAVCCEDHIHCCPAGFQCHTEKGTCEMGI LQVPWMKKVIAPLRLPDPQILKSDTPCDDFTRCPTNNTCCCKLNSGDWGCCPIPEAVCCSDNQHCCPQGFT CLAQGYCQKGD TMVAGLEKIPARQTTPLQIGDIGDQHTSCPVGQTCCPSLKGSWACCQLPHAVCCEDRQ HCCPAGYTCNVKARTCEKD VDFIQPPVLLTLGPKVGNVECGEGHFCHDNQTCCCKDSAGVWACCPYLKGVK CRDGRHCCPGGFHCSARGTKCLRKKIPRWDMLRDPVPRPLL
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	65.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_032201](#)

Locus ID: 14824

UniProt ID: [P28798](#), [Q3U9N4](#), [Q544Y8](#), [Q9D2V3](#)

RefSeq Size: 2348

Cytogenetics: 11 66.29 cM

RefSeq ORF: 1806

Synonyms: epithelin; Pgrn

**Summary:** Secreted proteins that act as key regulator of lysosomal function and as a growth factor involved in inflammation, wound healing and cell proliferation (PubMed:28073925, PubMed:8496151, PubMed:28541286, PubMed:28453791, PubMed:20026663, PubMed:23041626, PubMed:27789271, PubMed:12524533). Functions as regulator of proteins trafficking to lysosome and activity of lysosomal enzymes (PubMed:28453791, PubMed:28541286, PubMed:27789271). Facilitates also the acidification of lysosomes, causing degradation of mature CTSD by CTSB (PubMed:28073925). In addition, functions as wound-related growth factor that acts directly on dermal fibroblasts and endothelial cells to promote division, migration and the formation of capillary-like tubule structure (PubMed:12524533). Also promotes epithelial cell proliferation by blocking TNF-mediated neutrophil activation preventing release of oxidants and proteases (PubMed:8496151). Moreover, modulates inflammation in neuron by preserving neuron survival, axonal outgrowth and neuronal integrity (PubMed:23041626, PubMed:20026663).[UniProtKB/Swiss-Prot Function]