

## Product datasheet for MC205554

### Gnptg (NM\_172529) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnptg (NM_172529) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gnptg
Synonyms:	6430527N14Rik; A830081F19; AU067667; AU067744; Mdcp1; Tce7
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC055872 GAGCAATGGCCGGCGGCTGGCTGGCTTCCTGATGTTGCTGGGGCTCGCGTCGCAGGGGCCCGCCGGC ATGTGCCGGGAAGATGAAGGTGGTGGAGGAGCCTAACACATTCGGGCTGAATAACCGTTCCTTGCCCCAG GCAAGCCGCTTCAGCCCAAGAGAGAGCCTTCAGCTGTATCCGGGCCCTGCATCTCTTCAGACTTGCTG GCAAGTGCTTTAGCCTAGTGGAGTCCACGTACAAGTATGAATTCTGCCCTTCCACAACGTCACCCAGCA CGAGCAGACCTTCGCTGGAATGCCTACAGCGGGATCCTTGGCATCTGGCATGAGTGGGAAATCATCAAC AATACCTTCAAGGGCATGTGGATGACTGATGGGGACTCCTGCCACTCCCGGAGCCGGCAGAGCAAGGTGG AGCTCACCTGTGGAAAGATCAACCGACTGGCCACGTGTCTGAGCCAAGCACCTGTGTCTATGCATTGAC ATTCGAGACCCCTCTTGTGGCCATCCCACTCTTTGTTAGTGTATCCAACCTGTGCAGAGGCCCTGCAG CAGCGCTGGGACCAGGTGGAACAGGACCTGGCAGATGAACTGATCACACCACAGGGCTATGAGAAGTTGC TAAGGGTACTTTTTGAGGATGCTGGCTACTTAAAGGTCCCAGGAGAAACCCATCCACCCAGCTGGCAGG AGGTTCCAAGGGCCTGGGGCTTGAGACTCTGGACAAGTGTAGAAAGGCACATGCAGAGCTGTACAGGAG GTACAAAGACTGACGAGTCTGCTGCAACAGCATGGAATCCCCCACTCAGCCCACAGAAACCCCACT CTCAGCACCTGGGTGAGCAGCTCCCATAGGTGCAATCGCAGCAGAGCATCTGCGGAGTGACCCAGGACT ACGTGGGAACATCCTGTGAGCAAGGTGGCCACGAAGAATAGAAATATCCTGAGCTTTGAGTGGCCTTTCA CAGAGTGAACAAAACCTGGTGTGGTGTAGACACAGCTTCTTTTGGCATATTCTAGATCAGACAGTGTCACT GACAAACAAGAGGGACCTGCTGGCCAGCCTTTGTTGTGCCAAAGATCCAGACAAAATAAAGATTCAAAG TTTTAATTAATTCATACTGATAAAAAATAACTCCATGACTTCTGTAAACCATTGCATAAATGCTATTGT AAAAAATTTAAACAAATGTTAAACAACCTTAAACAATTCATAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_172529
Insert Size:	924 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">BC055872</a> , <a href="#">AAH55872</a>
<b>RefSeq Size:</b>	1246 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	214505
<b>UniProt ID:</b>	<a href="#">Q6S5C2</a>
<b>Cytogenetics:</b>	17 A3.3
<b>Gene Summary:</b>	Non-catalytic subunit of the N-acetylglucosamine-1-phosphotransferase complex, an enzyme that catalyzes the formation of mannose 6-phosphate (M6P) markers on high mannose type oligosaccharides in the Golgi apparatus. Binds and presents the high mannose glycans of the acceptor to the catalytic alpha and beta subunits (GNPTAB). Enhances the rate of N-acetylglucosamine-1-phosphate transfer to the oligosaccharides of acid hydrolase acceptors. [UniProtKB/Swiss-Prot Function]