

## Product datasheet for **MC224020**

### Gnptab (NM\_001004164) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gnptab (NM\_001004164) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gnptab  
**Synonyms:** EG432486; mKIAA1208  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224020 representing NM\_001004164  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGCTGCTTAAGCTCCTGCAGAGACAGACCTATACCTGCCTATCCACAGGTATGGGCTCTACGTCTGCT  
 TCGTGGGCGTCGTTGTCACCATCGTCTCGGCTTCCAGTTCGGAGAGGTGGTTCTGGAATGGAGCCGAGA  
 TCAGTACCATGTTTTGTTGATTCTACAGAGACAACATTGCTGGGAAATCCTTTCAGAATCGGCTCTGT  
 CTGCCATGCCAATCGACGTGGTTTACACCTGGGTGAATGGCACTGACCTTGAATGCTAAAGGAGCTAC  
 AGCAGGTCGAGAGCACATGGAGGAAGAGCAGAGGCCATGCGGGAACCCCTCGGGAAGAACACAACCGA  
 ACCGACAAAGAAGAGTGAGAAGCAGCTGGAATGTCTGCTGACGCACTGCATTAAGGTGCCATGCTTGT  
 CTGGACCCGCCCTGCCAGCAACTGCACCCTGAAGGATCTGCCAACCTTTATCCATCTTCCACGCTG  
 CCAGCGACATGTTCAATGTTGCGAAACCAAAAAATCCGTCTACTAATGTCTCCGTTGTCGTTTTGACAC  
 TACTAAGGATGTTGAAGACGCCCATGCTGGACCGTTAAGGGAGGCAGCAAACAGATGGTTTGGAGAGCC  
 TACTTGACAACAGACAAAGAAGCCCTGGCTTAGTGCTGATGCAAGGCTTGGCGTTCCTGAGTGGATTCC  
 CACCGACCTTCAAGGAGACGAGTCAACTGAAGACAAAGCTGCCAGAAAAGCTTTCCTCTAAAATAAAGCT  
 GTTGCGGCTGTACTCGGAGGCCAGTGTGCTCTTCTGAAATTGAATAATCCCAAGGTTTCCAAGAGCTG  
 AACAAAGCAGACCAAGAAGAACATGACCATCGATGGGAAGGAACTGACCATCAGCCCTGCGTATCTGCTGT  
 GGGACCTGAGTGCCATCAGCCAGTCCAAGCAGGATGAGGACGTGTCTGCCAGCCGCTTTGAGGATAATGA  
 AGAGCTGAGGTAAGTCTGCGATCTATCGAGAGACACGCGCCATGGGTACGGAATATTTTCATTGTCACC  
 AACGGGACAGATTCCATCTGGCTGAACCTTGACAACCCCTCGAGTGACCATAGTGACCCACCAGGACATTT  
 TCCAAAATCTGAGCCACTTGCTACTTTTCAGTTCCTGCTATTGAAAGTACATTACCCGCATCGAAGG  
 GCTGTCCAGAAGTTTATTTATCTAAATGACGATGTCATGTTCCGTAAGGACGTCTGGCCGGACGATTTT  
 TACAGCCACTCCAAAGGTCAAAGGTTTATTTGACATGGCCTGTGCCAACTGTGCAGAGGGCTGCCCGG  
 GCTCCTGGATTAAGACGGCTATTGTGATAAAGGCTGTAATAACTCAGCCTGTGACTGGGATGGCCGAGA  
 CTGCTCTGGTAATACTGCAGGGAACCGGTTTGTGTCAGGAGGTGGGGTACCGGGAATATTGGAGCTGGA  
 CAGCACTGGCAGTTTGGTGGAGGAATAAACACCATCTTACTGTAACCAAGGATGTGCAAACCTCTGGC



TGGCTGACAAGTTCTGTGACCAAGCCTGTAACGTCTTATCCTGCGGGTTTGATGCTGGTACTGTGGACA  
 AGATCATTTTCATGAATTGTATAAAGTAACACTTCTCCAAACCAGACTCACTATGTTGTCCCAAAGGT  
 GAATACCTGTCTTATTTTCAGCTTTGCAAACATAGCCAGAAGAGGAGTTGAAGGGACCTACAGCGACAACC  
 CCATCATCCGCCACGCGTCCATTGCAAACAAGTGGAAAACCATACACCTGATAATGCACAGTGGGATGAA  
 CGCAACCACGATCTATTTAACCTCACTCTTCAAACGCCAACGACGAAGAGTTCAAGATCCAGATAGCA  
 GTAGAGGTGGACACGAGGGAGGGCGCCAAACTGAATTTACAACCCAGAAGGCCTATGAAAGTTTGGTTA  
 GCCCAGTGACACCTCTTCTCAGGCTGACGTCCTTTTGAAGATGTCCCAAAGAGAACGCTTCCCAA  
 GATCAGGAGACATGATGTAATGCAACAGGGAGATTCCAAGAGGAGGTGAAAATCCCCGGGTAAATATT  
 TCACTCCTTCCCAAAGAGGCCAGGTGAGGCTGAGCAACTTGGATTTGCAACTAGAACGTGGAGACATCA  
 CTCTGAAAGGATATAACTTGTCCAAGTCAAGCTGCTAAGGTCTTCTGGGGAATTCCTAGATACTAA  
 AATAAACCTCAAGCTAGGACCGATGAAACAAAAGGCAACCTGGAGGTCCACAGGAAAACCTTCTCAC  
 AGACGTCCACATGGCTTTGCTGGTGAACACAGATCAGAGAGATGGACTGCCCCAGCAGAGACAGTGACCG  
 TGAAAGGCCGTGACCACGCTTTGAATCCACCCCGGTGTTGGAGACCAATGCAAGATTGGCCAGCCTAC  
 ACTAGGCGTGACTGTGTCAAAGAGAACCTTTACCGTGATCGTTCCCCAGAAAGCCACTTGCCAAAA  
 GAAGAGGAGAGTGACAGGGCAGAAGGCAATGCTGTACCTGTAAGGAGTTAGTGCCTGGCAGACGGTTGC  
 AGCAGAATTATCCAGGCTTTTGCCTGGGAGAAAAAAGTATTTCCAAGACCTTCTTGATGAGGAAGA  
 GTCATTGAAGACCCAGTTGGCGTACTTTACAGACAGCAAAACATACCGGGAGGCAACTAAAAGATACATTT  
 GCAGACTCCCTCCGATACGTCAATAAAATTCTCAACAGCAAGTTTGGATTACATCCAGGAAAAGTCCCTG  
 CACACATGCCGCACATGATTGACAGGATCGTTATGCAAGAAGTCCAAGATATGTTCCCTGAAGAAATTTGA  
 CAAGACTTCATTTACAAGGTGCGTCACTCTGAGGACATGCAGTTTGCCTTCTCCTACTTTTATTACCTC  
 ATGAGTGCAGTTACGCCCTCAATATTTCCAAGTCTTTCATGAAGTAGACACAGACCAATCTGGTGTCT  
 TGTCTGATAGGAAAATCCGAACACTGGCCACGAGAATTCACGACCTACCTTTAAGCTTGCAGGATTTGAC  
 AGGTTTGAACACATGTTAATAAATTGCTCAAAAATGCTCCCGCTAATCACTCAACTCAACAACATC  
 CCACCGACTCAGGAAGCATACTACGACCCCAACCTGCCTCCGGTCACTAAGAGTCTTGTACCAACTGTA  
 AGCCAGTAACTGACAAGATCCACAAAGCCTATAAAGACAAGAACAATACAGTTTGAATCATGGGAGA  
 GGAAGAAATCGCTTTCAAGATGATACGAACCAATGTTTCTCATGTGGTTGGCCAGTTGGATGACATCAGA  
 AAAAACCCAGGAAGTTCGTTTGTCTGAATGACAACATTGACCACAACCATAAAGATGCCCGGACAGTGA  
 AGGCTGTCTCAGGGACTTCTATGAGTCCATGTTTCCCATACCTTCCAGTTTGGAGTGCCTAAGAGAGTA  
 TCGGAACCGCTTTCTGCACATGCATGAGCTCCAAGAATGGCGGCATATCGAGACAAGCTGAAGTTTGG  
 ACCCACTGCGTACTAGCAACGTTGATTATTTACTATATTCTCATTTTTTGTGAACAGATAATTGCTC  
 TGAAGCGAAAGATATTTCCAGGAGGAGGATACACAAAGAAGCTAGTCCAGACCGAATCAGGGGTAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-RsrII

**ACCN:**

NM\_001004164

**Insert Size:**

3708 bp

**OTI Disclaimer:**

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).

**Components:**

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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001004164.2](#), [NP\\_001004164.2](#)

**RefSeq Size:** 5204 bp

**RefSeq ORF:** 3708 bp

**Locus ID:** 432486

**UniProt ID:** [Q69ZN6](#)

**Cytogenetics:** 10 C1

**Gene Summary:** Catalyzes the formation of mannose 6-phosphate (M6P) markers on high mannose type oligosaccharides in the Golgi apparatus. M6P residues are required to bind to the M6P receptors (MPR), which mediate the vesicular transport of lysosomal enzymes to the endosomal/prelysosomal compartment.[UniProtKB/Swiss-Prot Function]