

Product datasheet for **MC219558**

Gan (NM_001081151) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gan (NM_001081151) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gan
Synonyms:	A330045G18; gigaxonin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC219558 representing NM_001081151
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGGGCAGCGCTGTGTCCGACCCTCAGCACGCCGCGCGCTGCTGCGGGCGCTCAGCTCGTTCC
 GGGAGGAGGGCGTTTCTGCGACGCGCATCTGGTCTCGACGGCAGGAGATCCCGTGCAGAAGAACAT
 CCTGGCGCGGCCAGCCCGTACATCAGGACAAAGTAAACTATAATCCTCCAAAAGATGACGGATCCACT
 TATAAGATTGAACCTGAAGGGATATCGGTAATGGTGATGAGAGAGATCCTGGATTACATCTTCAGTGGG
 AGATCAGGTTAAATGAAGATAACAATCCAGGATGTTGTGCAGGCAGCCGACCTGCTGCTGACGGACCT
 GAAAACGCTGTGCTGTGAGTTCCGGAGGGCTGCATAGCGGGGAGAAGTGCATTGGCATCCGGGACTTT
 GCGCTGCACTACTGCCTGCACCACGTGCATTACCTGGCCACTGAGTACCTGGAGACCCACTTCCGAGACG
 TCAGCAGCACAGAGGAGTTCCTGGAGCTGAGTCCACAGAAACTCAAAGAAGTGATCTCTCTCGAGAAGCT
 GAACGTTGGCAACGAGAGATACGTGTTTCGAGGCAGTGATTTCGGTGGATAGCACACGATGTAGAGATGAGA
 AAGGTCCACATGAAGGATGTCATGTCAGCGCTGTGGGTCTCGGGGCTGGACTCCAGCTACCTGCGCGAGC
 AGATGCTGAATGAACCCCTGGTGCAGAAAATCGTCAAAGAGTGCAGCAACATCCCCTCAGCCAGCCGCA
 GCAGGGGGAGGCCATGCTGGCCAGCTTCAAAGCCAGGGGCTACTCAGAGTGCATAGTGACCATCGGAGGG
 GAGGAGAGAGTGTACGGAAACCCACAGCGGCCATGCGATGTAATGTGCCCTCTCTACGACCTAACCGGC
 AGCTGTGGATTGAACTGGCTCCTCTGAGCATGCCGAGAATTAACCATGGAGTTCTTTTCAGCAGAAGGATT
 TCTGTTTGTGTTGGGGGCAAGATGAAAACAAGCAGACGCTGAGCTCAGGAGAGAAGTATGACCCAGAC
 GCTAACACGTGGACTGCGCTCCCACCATGCATGAGGCAAGACACAACCTTGGGATCGTGGAGATAGACG
 GGATGCTTACATCCTTGGAGGGGAGGATGGCGATCGAGAGCTCATTTCATGGAGTGTTATGATATTTA
 TTCCAAAACCTGGACGAAGCAGCCGACTTGACCATGGTTAGGAAGATTGGCTGCTATGCAGCTATGAAA
 AAGAAAATCTATGCCATGGGCGGAGGCTCGTATGGAAAATGTTTGTGCTGTGGAGTGTTACGACCCAC
 GGACCCAGCAATGGACTGCCATATGCCACTGAAAGAGAGGAGGTTTGGAGCAGTGGCCTGTGGTGTTC
 CATGGAGCTGTATGTGTTGGAGGCGTCCGAAGTCGAGAGGACATCCAGGGCAGCGAGATGGTCACTG
 AAGTCCGAGTTCTATCATGACGAGTTTAAAGAGTGGATCTACCTTAACGATCAGAACCTATGCATCCCTG
 CCAGCTCCTCTTGTCTACGGAGCGGTCCCATAGGAGCCAGTATTTATGTTATCGGAGACCTGGACAC
 AGGTACCAACTACGACTACGTGCGGGAGTTTAAAGAGAAGCAGGGCACCTGGCACCACACAAAGCCACTC
 CTGCCATCTGACCTTCGGCGCACAGGCTGTGCAGCCCTGCGCATAGCCAAGTCAAGCTCTCCGCTG
 AGCTGCAACAAGGCTTGTCCGCATCCGGTCCATTCCCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081151
- Insert Size:** 1794 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_001081151.1](#), [NP_001074620.1](#)

RefSeq Size: 2652 bp

RefSeq ORF: 1794 bp

Locus ID: 209239

UniProt ID: [Q8CA72](#)

Cytogenetics: 8 E1

Gene Summary: Probable cytoskeletal component that directly or indirectly plays an important role in neurofilament architecture. May act as a substrate-specific adapter of an E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Controls degradation of TBCB (By similarity). Controls degradation of MAP1B and MAP1S, and is critical for neuronal maintenance and survival.[UniProtKB/Swiss-Prot Function]