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Product datasheet for MC203321

Gnat1 (NM_008140) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnat1 (NM_008140) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gnat1
Synonyms:	Gnat-1; Ird1; Ird2; irdc; irdr; Tralpha; transducin
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC058810
GGCCAGAAGGTCGTCTGAGGAGGCCGGGGAGGCTGCCTACCCTGTCCCTTTGCCTGCTGCTGGGACCATG
GGGGCTGGGGCCAGCGCTGAGGAGAAGCACTCCAGAGAGCTGGAGAAGAAGCTGAAAGAGGATGCTGAGA
AGGATGCCCGCACTGTGAAACTGCTGCTTCTGGGTGCCGGTGAATCCGGGAAGAGCACTATTGTCAAACA
GATGAAGATTATCCACCAGGACGGGTATTCGCTGGAGGAATGCCTCGAGTTCATTGCCATCATCTACGGC
AACACTCTGCAGTCCATCCTGGCCATCGTTCGGGCTATGACCACGCTCAACATTCAGTATGGAGATTCAG
CCCGGCAGGATGATGCCCGGAAGCTCATGCACATGGCAGATACTATTGAGGAAGGCACAATGCCCAAGGA
GATGTCAGACATCATTCAGCGCTTGTGGAAGGACTCGGGTATCCAAGCTTGCTTTGACCGAGCCTCAGAA
TACCAGCTCAATGACTCCGCCGGCTACTATCTCTCAGACCTAGAGCGTCTGGTGACTCCAGGATATGTGC
CCACTGAGCAGGACGTGTTGCGTTCTCGTGTCAAAACCACTGGTATTATCGAGACTCAATTCTCCTTCAA
GGACCTCAACTTCAGAATGTTCGATGTGGGCGGGCAGCGTTCCGAGCGCAAAAAGTGGATCCACTGCTTT
GAGGGTGTGACGTGCATCATTTTCATCGCTGCGCTGAGCGCTTACGACATGGTGCTGGTGGAGGACGACG
AAGTGAACCGAATGCACGAGAGCCTGCACCTGTTCAACAGCATCTGCAATCATCGCTACTTCGCCACAAC
GTCTATCGTGCTCTTCCTCAACAAGAAGGACGTTTTCTCCGAGAAGATAAAAAAGGCACACCTCAGCATC
TGCTTCCCCGACTACGATGGACCTAACACTTACGAGGATGCCGGCAACTACATCAAAGTGCAGTTCCTGG
AGCTTAACATGCGACGTGATGTGAAGGAGATCTATTCCCACATGACGTGCGCTACCGACACACAGAACGT
CAAGTTTGTCTTTGACGCTGTCACCGACATTATCATCAAGGAGAACCTCAAAGACTGCGGGCTCTTCTGA
GGTACCTGAATTCAGGTGTGTCTCTTGCCCTGAGATTCTGTAGCCCTGCAGCCCTGTAGCCCTGTAGTCC
CCTCAAATACCGTCCTTTCCACAAGCTGCTGCTCTTGTAGCCACACACCCAAAGGCATGAGGCTTGCAGT
GCAGACCCTCCCCCAAGTACCCAACTCGACCCTGCTTTTCACCGCCTGGCTGCACTGGCCTCTTGGACCT
ACAGCAGCCAGCCTGAGCTAGGACACCTCAGGACTTGGGACAGCTGGAACTCACAGTGACTCAGCAGTGC
CCTAGTGACCCGTCTGTCTCCAGCCTCTTCTGCTACCCCCAGCAGCAGCAGCAGCTCACCAGCAGATCCC
CATTCCACAAACAGCCCTCCCTCACCAGTTTCCACGAAGGACTTGAGGTATCCCTCCCTCAAGCAGTAGG
CCGGTCCAGCCTGCTACCTGCATATGACAAGTCCAACACGTGTCCACCCAGTGGTTAGTGACTGTCCCTC
CCAGTAGCCTGAGGACTCCAAAGTCCAAGCTCTGGTTTTTGAAGCCTCGTATAGAGAAGTGAGTGACTTT
GACGTGGGTGCCAGGGAAAGAAAGACACAAGCCAAACCCATTCCCGAACATCAGACTCAGGGTTTCTCCA
GTCCCTTCTCCCTCTGGGTCTTGCCCCTCTGTCCTTGGACACTTCCACACCACACCTCATCCACCCACAC
ACAATACTCAGGGCTGGCTGGTCAAGGTATGCTGTATTGAAGGAGGGTATTATTGACATAGCTATGACCA
ATAATGAAGCCATGCTGAGGGGTGGCTCAGAGCAGAGTCCAACCCCTATTGATCAACCATGGGCAAAGAA
TATCCCATGTGAGGTTACAGGCAATTCCATGTGACCATGTTGTCCCTCCTGATTCAGGGCCCATTCCTTA
GGAGGGAGAACTGAAAACCAGGCCTAAACCATTAGAGACAATGTCCCCCAACCCCCAGCCACTTCTACAA
CCTTTGCTTAAGCCTGTGGACCAGAGCCAGTGCTGCTGGAAGAGGCAAGATGCTTCTGGACAGCAAGACT
AGGGCACAACCTCTCCCTCCCTTAGCTAGCTGCAGACTCAGCAATAAACCTTTGCACCAGAAAAAAAAAA AAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_008140

Insert Size: 1053 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:	BC058810, AAH58810
RefSeq Size:	2245 bp
RefSeq ORF:	1053 bp
Locus ID:	14685
UniProt ID:	P20612
Cytogenetics:	9 58.86 cM
Gene Summary:	Functions as signal transducer for the rod photoreceptor RHO. Required for normal RHO-mediated light perception by the retina (By similarity). Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs), such as the photoreceptor RHO. The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state. Activated RHO promotes GDP release and GTP binding. Signaling is mediated via downstream effector proteins, such as cGMP-phosphodiesterase (By similarity).[UniProtKB/Swiss-Prot Function]