

Product datasheet for **MC200376**

Gas8 (BC003779) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gas8 (BC003779) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gas8
Synonyms: Gas11
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC003779
GATTAGTGGAAAGTCTGGACTGCTGGCACCATGGCACCCAAAAAGAAAGGAAGAAGGGGAAAGCCAAAG
GGACCGCGATTGTTGATGGCGTCGCACCAGAGGACATGACCAAGGAGCAGGTGGAGGAACATGTCGCCCG
CATCCGGGAGGAGCTGGACAGGGAGAGAGAGGAGCGTAACACTACTTCCAGCTGGAGCGCGACAAGATCCAC
ACCTTCTGGGAGATCACGCGAGGCAGCTGGAGGAGAAGAAGGCTGAGCTGCGCAACAAAGACCGGGAGA
TGGAGGAGGCCGAGGAGAGGCACCAGGTGGAGATCAAGGTATACAAGCAGAAGGTGAAGCACCTGCTGTA
CGAGCACCAAGCAACTTGGCTGAGGTGAAGGCTGAGGGCACCGTGGTCAAGCTGGCCAGAAAGGAG
CACCGCACCCAGGAGGGCGCTCTGCGCAAGGACATGCGGGTGTGAAGGTGGAGCTCAAGGAGCAGGAGC
TGGCTAACGAGGTGGTCATAAAGAACCTGTGCCTGAAACAAGCCGAGGAGATCACCAAGATGCGAAATGA
CTTTGAAAGGCAAGTTCGAGAAATTGAGGCCAAGTATGATAAGAAGATGAAGATGCTTAGAGACGAACCT
GACCTGCGGAGGAAGACTGAGATCCATGAGGTAGAGGAGAGGAAAAACGGCCAGATCAGCACTCTGATGC
AGCGCCACGAGGAGGCCCTTACGGACATCAAGAACTACTACAACGACATCACTCTCAACAACCTGGCCCT
CATCAACTCCCTCAAGGAGCAGATGGAGGACATGCGTAAGAAGGAGGAACACATGGAGAGGGAGATGGCG
GAGGTGACTCTGCAGAACCAGGCGGCTGGCCGACCCGCTGCAGAAAGCCAAAGGACGAGATGAACGAGATGC
AGAAGAGACTGGGAACACGAGAGGGACAAGCAGATTCTGGTCTGTACAAAGGCACGTTTGAAGGTGGC
TGAGAGGGAGCTAAAGGACCTGAAATGGGAACATGAGGTCTGGAGCAGAGGTTTCATCAAGGTGCAGCAG
GAGAGGGAAGAGCTCTATCGGAAGTTTGCAGACGCCATCCAGGAGGTGCAGCAGAAGACGGGCTTCAAGA
ACCTGCTGCTGGAGCGGAAGCTGCAGGCCCTGAACGCTGCTGTGGAGAAGAGAGAGGTTTCAGTTCAATGA
GGTGTGCGCCGCTCAACCTGGACCCACAGCATTAAACGCTTGTGCCGAACTTGAGGATGTTCTA
GAATCGAAGAATACCACCATCAAGGACTTACAGTATGAGCTGGCCGGGTCTGCAAGGCCCAACAATGACC
TGCTGCGTACATATGAGGCGAAGTTACTGGCCTTCGGGATCCCCCTGGACAATGTGGGGTTCAAGCCCT
GGAGACAGCAGTGATTGGACAGACTGGGACAGGCCCTGCAGGACTTGTGGGTGCCCTACATAGCCA
TCTTCTCAGCCTTCAACCTTTACAGCCTTCCCCTCTGTCCAAGTAATACCTCTATGCCCAACACAGGCAA
GGGTTTGTCTTCTAGACTTACCCGTCAGCAATGAAAGTTTCCACATTTACTTTAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAA

Restriction Sites: RsrII-NotI



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ACCN:	BC003779
Insert Size:	1437 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:	<ol style="list-style-type: none">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:	BC003779 , AAH03779
RefSeq Size:	1620 bp
RefSeq ORF:	1437 bp
Locus ID:	104346
Cytogenetics:	8 E1
Gene Summary:	Component of the nexin-dynein regulatory complex (N-DRC), a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Plays an important role in the assembly of the N-DRC linker (By similarity). Plays dual roles at both the primary (or non-motile) cilia to regulate hedgehog signaling and in motile cilia to coordinate cilia movement. Required for proper motile cilia functioning. Positively regulates ciliary smoothed (SMO)-dependent Hedgehog (Hh) signaling pathway by facilitating the trafficking of SMO into the cilium and the stimulation of SMO activity in a GRK2-dependent manner (PubMed:17366626, PubMed:21659505, PubMed:27472056). May play a role in the spermatozoa motility (PubMed:11751847).[UniProtKB/Swiss-Prot Function]