

Product datasheet for **RN207882**

Gas8 (NM_001039030) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gas8 (NM_001039030) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gas8
Synonyms:	MGC124779
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN207882 representing NM_001039030
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACCCAAAAGGAGAGGGAAGAAAGGAAAGCCAAAGGGAATGCAGTCGTTGATGGGGTGCACCAG
 AGGACATGTCCAAGGAGCAGGTGGAGGAACATGTCGCCCGCATCCGGGAGGAGCTGGACCGGAGCGGGA
 GGAGCGCAACTACTTTTCAGCTGGAGCGGACAAAATCCACACCTTCTGGGAGATCACGCGGAGGCAGCTG
 GAGGAGAAGAAGGCTGAGCTGCGCAACAAAGACCGGGAGATGGAGGAGCCGAGGAGAGGCACCAGGTGG
 AGATCAAGGTTTACAAGCAGAAAGTGAAGCACCTTCTGTACGAACACCAGAACAATCTGGCAGAGGTGAA
 GACTGAGGGCACCGTGGTCATGAAGCTGGCCAGAAAGGAGCACCAGCGCCCAAGAGGGCGCTCTGCGCAAG
 GACATGCGCGTGTGAAAGTGGAGCTGAAGGAGCAGGAGCTGGCTAACGAGGTGGTGATAAAGAACCTGC
 GTCTGAAACAAGCCGAGGAGATACCAAGATGCGAAATGACTTTGAAAGGCAAGTTCGAGAAATCGAGGC
 CAAATATGATAAAAAGATGAAGATGCTTCGAGACGAGCTTGACCTGCGGAGAAAGACTGAGATCCACGAG
 GTGGAGGAGAGGAAGAACGGGCAGATCAGTACGCTGATGCAGCGTCATGAGGAGGCCTTCACTGACATCA
 AAAACTACTACAATGACATCACTCTCAACAACCTGGCCCTCATCAATTCCTCAAGGAGCAGATGGAGGA
 TATGAGGAAGAAGGAGGAGTACCTGGAGAGGGAGATGGCGGAGGTGTCTCTGCAGAAACAGCGGCTGGCT
 GAGCCGCTGCAGAGAGCCAAGGAGGAGATGAGCGAGATGCAGAAGAGACTGGGGAACCATGAGAGGGACA
 AGCAGATCCTGGCCTGTACGAAGGCACGTTTGAAGGTCACTGAGAAGGAGCTGAAGGACCTGAAGTGGGA
 GCATGAGATCCTGGAGCAGAGGTTTCATCAAGGTGCAGCAGGAGAGGGAAGAGCTCTATCGGAAGTTCCT
 GCAGCCATCCAGGAGGTGCAGCAGAAGACAGGCTTCAAGAACCTGGTGGAGCGTAAGCTGCAGGCAC
 TGAATGCTGCTGGAGAAGAGAGAGGTCAGTTCATGAGGTGCTGGCTGCCTCCAACCTGGACCCCTAC
 AGCACTAACACTTGTGTCTCGCAAACCTGAGGAGGTTCTAGAGTGAAGAATAACCATCAAGGACTTG
 CAGTATGAGCTGGCCGAGTCTGCAAGGCCACACGACCTGTTGCGTACATATGAGGCAAAGTTATTGG
 CCTTCGGGATCCCCCTGGACAATGTGGGGTTCAAGCCCTGGAGACAGCAGTGATTGGACAGACTGGG
 ACAGGGCCCTGCAGGACTTGTGGGTGCGCCGACA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001039030

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:

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_001039030.1](#), [NP_001034119.1](#)

RefSeq Size: 1602 bp

RefSeq ORF: 1437 bp

Locus ID: 361438

UniProt ID: [Q499U4](#)

Cytogenetics: 19q12

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. 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.[UniProtKB/Swiss-Prot Function]