

Product datasheet for **MG207834**

Gas8 (NM_018855) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gas8 (NM_018855) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gas8
Synonyms:	Gas11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207834 representing NM_018855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCACCCAAAAAGAAAGGGAAGAAGGGGAAAGCCAAAGGGACCGCGATTGTTGATGGCGTCGCCACCAG
 AGGACATGACCAAGGAGCAGGTGGAGGAACATGTCGCCCGCATCCGGGAGGAGCTGGACAGGGAGAGAGA
 GGAGCGTAACTACTTCCAGCTGGAGCGCGACAAGATCCACACCTTCTGGGAGATCACGCGGAGGCAGCTG
 GAGGAGAAGAAGGCTGAGCTGCGCAACAAGACCCGGGAGATGGAGGAGCCGAGGAGAGGCACCAGGTGG
 AGATCAAGGTATAACAAGCAGAAGGTGAAGCACCTGCTGTACGAGCACCAGAACAACCTGGCTGAGGTGAA
 GGCTGAGGGCACCGTGGTTCATGAAGCTGGCCAGAAGGAGCACCACCCAGGAGGGCGCTCTGCGCAAG
 GACATGCGGGTGTGAAGGTGGAGCTCAAGGAGCAGGAGCTGGCTAACGAGGTGGTCATAAAGAACCTGT
 GCCTGAAACAAGCCGAGGAGATACCAAGATGCGAAATGACTTTGAAAGGCAAGTTCGAGAAATTGAGGC
 CAAGTATGATAAGAAGATGAAGATGCTTAGAGACGAACCTTGACCTGCGGAGGAAGACTGAGATCCATGAG
 GTAGAGGAGAGGAAAAACGGCCAGATCAGCACTCTGATGCAGCGCCACGAGGAGGCCTTACGGACATCA
 AGAACTACTACAACGACATCACTCTCAACAACCTGGCCCTCATCAACTCCCTCAAGGAGCAGATGGAGGA
 CATGCGTAAGAAGGAGGAACACATGGAGAGGGAGATGGCGGAGGTGACTCTGCAGAACCGCGCGCTGGCC
 GACCCGCTGCAGAAAGCCAAGGACGAGATGAACGAGATGCAGAAGAGACTGGGGAACCACGAGAGGGACA
 AGCAGATTCTGGTCTGTACAAAGGCACGTTTGAAGGTGGCTGAGAGGGAGCTAAAGGACCTGAAATGGGA
 ACATGAGGTCTGGAGCAGAGGTTTCATCAAGGTGCAGCAGGAGAGGGAAGAGCTCTATCGGAAGTTTGCA
 GACGCCATCCAGGAGGTGCAGCAGAAGACGGGCTTCAAGAACCTGCTGCTGGAGCGGAAGCTGCAGGCCC
 TGAACGCTGCTGTGGAGAAGAGAGAGGTTCAAGTCAATGAGGTGCTGGCCGCTTCAACCTGGACCCAC
 AGCATTAAACGCTTGTGTCCCGCAAACCTTGAGGATGTTCTAGAATCGAAGAATACCACCATCAAGGACTTA
 CAGTATGAGCTGGCCCGGTCTGCAAGGCCACAATGACCTGCTGCGTACATATGAGGCGAAGTTACTGG
 CCTTCGGGATCCCCCTGGACAATGTGGGGTTCAAGCCCTGGAGACAGCAGTGATTGGACAGACTGGG
 ACAGGGCCCTGCAGGACTTGTGGGTGCCCTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207834 representing NM_018855
 Red=Cloning site Green=Tags(s)

MAPKKKGKKGKAKGTAIVDGVAPEDMTKEQVEEHVARIREELDREREERNYFQLERDKIHTFWEITRRQL
 EEKKAELRNKDREMEEAERHQVEIKVYKQVKHLLYEHQNNLAEVKAEGTVVMKLAQKEHRTQEGALRK
 DMRVLKVELKEQELANEVVIKNLCLKQAEIITKMRNDFERQVREIEAKYDKMKMLRDELDLRRKTEIHE
 VEERKNGQISTLMQRHEEAFDINKNYNDITLNNLALINSLKEQMEDMRKKEEHMEREMAEVTLQNRRLA
 DPLQKAKDEMNMQKRLGNHERDKQILVCTKARLKVAERELKDLKWEHEVLEQRFIKVQQEREELYRKFA
 DAIQEVQKQTFKNNLLERKLQALNAAVEKREVQFNEVLAASNLDPTALTLVSRKLEDVLESKNTTIKDL
 QYELARVCKAHDLLRITYEAKLLAFGIPLDNVGFPLETAVIGQTLGQGPAGLVGAPT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_018855.2](#), [NP_061343.2](#)

RefSeq Size: 1687 bp

RefSeq ORF: 1437 bp

Locus ID: 104346

UniProt ID: [Q60779](#)

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]