

Product datasheet for **MG221156**

Gorasp2 (NM_027352) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gorasp2 (NM_027352) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gorasp2
Synonyms:	0610011A07Rik; 2410043M02Rik; 5730520M13Rik; 9430094F20Rik; AW552058
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221156 representing NM_027352
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCCTCGCAGAGCGTCGAGATCCCGGGCGCGGCACCGAGGGCTACCACGTTTTGCGGGTACAGG
 AAAACTCCCAGGACACAGAGCTGGACTGGAGCCTTTCTTTGATTTTATTGTTTCTATTAACGGTTCAAG
 ATTAATAAAGACAATGACACTCTGAAGGATCTGCTGAAAGCCAACGTTGAGAAGCCTGTAAAAATGCTC
 ATCTACAGCAGCAAAACCTGGAGCTGCGGGAGGCCTCGGTACACCCGAGCAACTGTGGGGCGGCCAGG
 GCTTGTGGGGTTAGCATTCTGTTCTGACGCTTTGACGGGGCCAACGAAACGTTTGGCATGTGCTGGA
 AGTGGAATCCAATCCCCAGCAGCGCTGGCAGGATTGAGACCTCACAGTGATTACATCATTGGAGCTGAT
 ACCGTCATGAATGAGTCTGAAGACCTGTTGAGCCTTATTGAGACCCACGAAGCAAAGCCCTGAAGCTCT
 ACGTGTACAACACAGACACAGACAACACTGCAGAGAAGTGATCATCACCAAACCTGTCATGGGGCGGAGA
 AGGCAGCCTTGGATGTGGCATTGGCTATGGTTATTTGCACCGAATACCTACACGCCCTTTGAAGAAGGA
 AAGAAGATTTCCCTTCCAGGACAAATGACTGGTACCCCAATTACTCCTCTTAAGGATGGGTTTACAGAGG
 TCCAGCTGTCTTCAAGTCACTCCATCTTTGTCACCACCAGGAACACTACAGGAGTTGAGCAGAGTCTGTC
 TGGACTCTCCATTAGCTCGGCACCACCGCTGTGAGCAATGTTCTCAGTACAGGCGTACCAACTGTACCA
 TTGTTGCCGCCACAAGTAAACCAGTCCCTTGTCTATGCCACCAATGAACCCAGCTACCACATTACCA
 GTCTGATGCCTTTGTGACAGGGCTGCCTAGCCTCCCAACCTCCCAGCCTCTCCAACCTCAACCTCCC
 TGCTCCGCACATCATGCCAGGGTGGTTTGCAGAGCTCGGGAGCCCGGTTTGCACCTCTTCCCTCC
 TTGCCCTCCCGAAACTTACCTGGCATTGCACCTCTCCCATGCTGTCGACTTCTCCCGTATTCCCTT
 TGGTTCAGAGGGCTCTTCTGACGCCAGCGCAGGGGAGCCGCTGTCTTCCCTTCTGCCATGGGCCACC
 TTCTGACCCTGTGATGACTACTGCAAGGCAGACGCCTCTTCCCTCACTGTGGATGTGACGTCTCCTGCT
 TCCAAGTCCCAACACTGTTGAGGACAGAGTACGCGACTGCACCCCGCCGTCGAGAAGCCTGTGCTG
 ATGCAGATGCTTCAGAGCCTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221156 representing NM_027352
 Red=Cloning site Green=Tags(s)

MGSSQSVEIPGGGTEGYHVLRVQENSPGHRAGLEPFFDFIVSINGSRLNKDNDTLKDLLKANVEKPVKML
 IYSSKTLELREASVTPSNLWGGQGLLGVSRFCSFDGANENVWHVLEVESNSPAALAGLRPHSDYIIGAD
 TVMNESEDLFSLIETHEAKPLKLYVYNTDNDNCREVIIIPNSAWGGEGLGCGIGYGLHRIPTRPFEEG
 KKIISLPGQMTGTPITPLKDGFEVQLSSVSPPSLSPPGTTGVEQSLSGLSISSAPPAVSNVLSTGVPTVP
 LLPPQVNSLASMPMPNATTLPSLMPLSAGLPSLPNLPSLNFNLPAPHIMPVGLPELGSPLPPLPS
 LPPRNLPGIAPLMLSDFLPSFPLVPEGSSAASAGEPLSSLPAMGPPSDPVMTTAKADASSLTVDVTS
 SPA
 SKVPTTVEDRVS DCTPAVEKPVSDADASEPS

TRTRPLE - GFP Tag - V

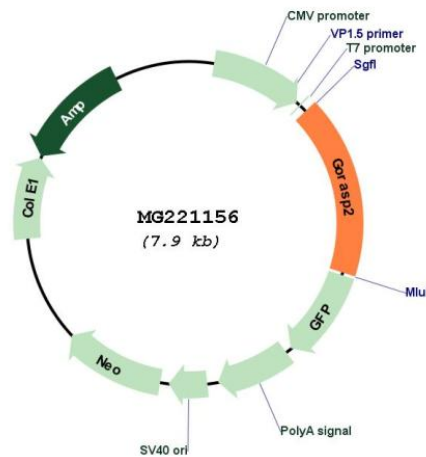
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027352

ORF Size: 1353 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_027352.4 , NP_081628.3
RefSeq Size:	2287 bp
RefSeq ORF:	1356 bp
Locus ID:	70231
UniProt ID:	Q99JX3
Cytogenetics:	2 C2
Gene Summary:	Plays a role in assembly and membrane stacking of the Golgi cisternae, and in the process by which Golgi stacks reform after breakdown during mitosis and meiosis (PubMed:28617811). May regulate the intracellular transport and presentation of a defined set of transmembrane proteins, such as transmembrane TGFA (By similarity). Required for normal acrosome formation during spermiogenesis and normal male fertility, probably by promoting colocalization of JAM2 and JAM3 at contact sites between germ cells and Sertoli cells (PubMed:28617811). Mediates ER stress-induced unconventional (ER/Golgi-independent) trafficking of core-glycosylated CFTR to cell membrane (By similarity).[UniProtKB/Swiss-Prot Function]