

Product datasheet for **RG206149**

GGN (NM_152657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGN (NM_152657) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GGN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206149 representing NM_152657
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAACTTGCAGTCGGAGCCATCCGCGGGCGGGGCTCCCGAAAAGTGCAGCCCTCGGACCGCGCC
 CCGACTCCCGCCGACGTCCCTGGTGGAGCCCGAGATGACCTCCAGGCCATGCGCCTGACTCGTGGGCT
 GGGTGTCTGGTTCCCTGGCAGCGCCACACCCCGGACTCATGGTACCCCGGAGCCCGAGGCTCACCC
 TCGACCTGCCCTCACCTAGAACGGCCTCTCCAGTATGCCCTCCTGAAGAGCGCGCGGTCT
 CTGCACACCCCGGCCCGCGGGACTCTGCTGCCCGCCCTCTAAATGGCAAAGCCCGGGGAC
 TCCAGTCCCGGATCCGCCCTGCTGGAGGCGAGCCATCGCGCCAGGGCGACCTCCGAGCCTCCG
 CCGCTGAAGCCCGCCCGCCCGCCCGCAACTATCCGTGAAGGACTGTCCGAGGGCCCATCCCAAT
 TTCGCGCCCTGGAGACTTGAAGCCGCCACCACCTTACCTTCTGAACGGCAGCCGGCGGACCGCAG
 AATCACTCTGCTTGGCCACACCCGCTCACCCCGACAGAAAGCCAGGCTGGGCCCGCAACAGGGC
 CAGACGGCCGGCAGGGCTCGCGGAGGGCGCCTCCCATGCGGGCGAAGGCGAAATGGCCAGCCTCGG
 ATCCGAGTCCGGTCTGAGCCTGCTGTGTAAAATCACCTTCAAGTCGAGGCCCTCTTTGGCCCTCCGG
 AGCCTCGAGTTCTTAGCAGCAAAGCTTCGCTGGGGGGCGGGAGGCGGCGCCCTCTTTGCTGCCTCA
 GGTGCCATCTTACGCCGAGGTCTGAAGCAAGGGCCCTGCCTCCTGGAGCCGCTCGCCCTTGGGAG
 AGGTTTCTCGAGGGGACAGGAAGCCGAGGGAGGTGATGGAGACGGCGAAGGGTCTCTGGTCTCCCTC
 GGCGCTGCGTCCAAGCCCGGGCCCTACCGCCGACCCCTACACCACCTCCAGGCTCGAAGCCAAA
 TTCGACTGGGTTAGCGCTCCCGACGGCCCTGAACGCCACTTCCGCTTCAACGGGGTGGCGGAGGCATCG
 GGGCGCCGCGAGCGGTGCGGCCACTCTTGGGCTTGGGGCTCCCTCCGCCACACAGAGCAGAT
 ACCTCAGCTCCCGGGCCCGGAGGCCCGCACCTGCCCTGCTGGCGCCGCTACGTTTATCTTCCAGCA
 CCCACCAATGGCGAGCCATGCGCCCGGGCTCCAGGCTGCAGGAGTTACCACCGCTGCCACCGCCCA
 CACCGCCGCCACTGCAGCCACCAGCCTCCAGCCAACGCGCTGCCGGTGGCTCCCGGCTCACCC
 GGGTCTGGGCCACAAGGAGTCAGCCCTGGCTCCACCGCAGCCCTGCTTGCCTCCAGCCTTAGCCGCG
 GACCAGGCCCGGCCCATCCCGGCTCCAGCTCCACCGTGGCTGAGCCTCGCCGCTGTGTCCGCGC
 CCGACCCCGGGTGCGCCATCAAGACCCGCACAGCAGGAACAAGGGTCCCGTGCAGCCGGGGCGC
 GACCCGTAAGGATGGCTGCATGGAGATGGTCTCGGAACGAGCTACAGTACCGTGCCTGACAGCAGT
 GGTGGAGGGGTGGTGGCAGCGGGCCTCTCAGACTGGGGCAGCTAACACCGCGCTGCGGCCACTGGC
 TGCCCTTCCAGGTGCTTAACTCCTGTCCCTGCAAGTGTTACTGCCACCACAGCCAGCCATCGCCGCT
 GCCACGCAACGTCTCTGCTGGCTGAGCACATCCACCAACCACCTGGGGAGCCACCCTGGGTTGCCACC
 ATCAAGCTGTCCGGCTCTCTGGTGGCAAGCTGGAGCACTACGACTTGCAGGCCACCCATTCCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206149 representing NM_152657
 Red=Cloning site Green=Tags(s)

MGNLQSEPSAGGSRKVQPSDRAPDSRRTSLVEPEMTSQAMRLTRGLGVWFPGSATPPGLMVPREPQASP
 STLPLTLERPSVMPPEEAAVSAAPPAPAGTLLPGPSKWQKPAAGTPVPRIRRLLEASHRQGDPPSLR
 PLKPPPPRQLSVKDTVPRAQSFPFPLETWKPPPLPSERQPADRRITPALATPASPTESQAGPRNQG
 QTAGRARGAPPHAGEGEMAPADSEGLSLLCKITFKSRPSLAPPAASSSLAAKASLGGGGGGLFAAS
 GAI SYAEVLKQGPLPPGAARPLGEVSRGAQEAEGDGDGEGCSGPPSAPASQARALPPPPYTFPGSKPK
 FDWVSAPDGPFRHFRFNGAGGGIGAPRRRAALSGPWGSPPPPPEQIHSAPGPRRPAPALLAPPTFIFPA
 PTNGEPMRPGPPGLQELPPLPPPTPPPTLQPPALQPTPLPVAPPLTPGLGHKESALAPTAAPALPALAA
 DQAPAPSPAPAPTVAEPSPPVSAPAPAAAIKTRTRRNKGSRAARGATRKDGLHGDGPRERATATVPDSS
 GGGGGSGASQTGAANTRAARHWLPFQVLNSCPCKCYCHHQPRHRLPRNVSAWLSTSTNHLGEPWPVAT
 IKLSGSLVAKLEHYDLQATHSN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_152657

ORF Size: 1956 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:

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_152657.3](#), [NP_689870.3](#)

RefSeq Size: 2168 bp

RefSeq ORF: 1959 bp

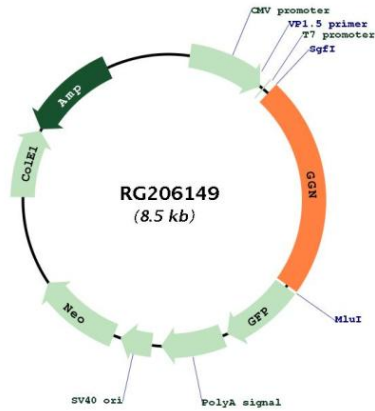
Locus ID: 199720

UniProt ID: [Q86UU5](#)

Cytogenetics: 19q13.2

Gene Summary: This gene is a germ cell-specific gene that encodes proteins that interact with POG (proliferation of germ cells). Alternatively spliced transcript variants of a similar mouse gene encode at least three different proteins, namely gametogenetin protein 1a, gametogenetin protein 2, and gametogenetin protein 3, which show a perinuclear, cytoplasmic, and nucleolar localization, respectively. These proteins regulate the localization of POG and may play a role in spermatogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206149