

Product datasheet for **MG216498**

Gpr61 (NM_175470) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Gpr61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG216498 representing NM_175470
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCTCACCCATCCCCAGTCATCAGGAACTCGTCCACTTTGGGAAGGGCCCTTCAAACCCAG
GTCCCTCTACTGCCAGCGGGTCCCAGAGTTGGGATTACGGGACGTGGCTTCAAGATCTGTGGCCCTCTT
CTTCATGCTCCTGTTGGATCTCACTGCTGTGGCTGGCAATGCTGCTGTGATGGCTGTTATTGCCAAGACA
CCCGCCCTCCGAAAATTTGTTTTGTCTTCCATCTTTGTCTGGTGGACCTGCTGGCTGCCCTGACCCCTCA
TGCCGCTTGCCATGCTCTCCAGCTCTGCCCTCTTTGACCACGCCCTCTTTGGGGAGGTGGCTGCCGCCT
CTACCTGTTCTGAGCGTTTGTCTTGTGACGCTGGCCATCCTTTCCGGTGTCTGCCATTAATGTGGAGCGC
TACTATTATGTGGTCCACCCAATGCGCTACGAGGTGCGCATGACACTAGGGCTGGTGGCCCTCCGTCTGG
TGGCGCTGTGGTAAAGGCCCTAGCCATGGCTTCTGTGCCAGTGTGGGAAGGGTCTACTGGGAGGAAGG
AGCTCCAGTGTAAACCCGGCTGTCTCTCCAATGGAGCCATAGTGCCTACTGCCAGCTTTTTGTGGTGT
GTCTTTGCTGTTCTGTACTTCTGTGCCCTTGATCCTGATCTTTGTGGTCTACTGCAGCATGTTTCGAG
TGGCTCGCGTGGCTGCCATGCAACACGGGCGCTGCCACGTGGATGGAGACGCCCCGGCAACGCTCTGA
GTCTCTCAGTAGCCGCTCACTATGGTTACCAGCTCCGGGGCTCACCAGACCACCCACACCCGGACGTTT
GGGGTGGGAAGGCAGCAGTGGTCTCCTGGCTGTAGGGGGACAGTTCTTGCTTTGTTGGTGGCCCTACT
TCTCTTTCCATCTCTATGTTGCCCTGAGCGCACAGCCATTTCAAGCAGGACAGTGGAGAAGCTGGTAAAC
CTGGATTGGCTACTTTTGCTTCACTTCCAACCCCTTTTTCTACGGATGTCTCAACCGTCAGATCCGGGGC
GAGCTTAGCAAAAGTTTGTCTGCTTCTTCAAGGCAGCTCCAGAGGAGGAGCTGAGGCTGCCTAGTCGTG
AGGGCTCCATTGAGGAGAATTTCTGCAGTTCCTCCAGGGGACCTCTGAGAAGTGGGTTTCTCGGCCCT
ACCCAGTCTAAGCGGGAGCCACCCCTGTTGTTGACTTTCGAATCCAGGCCAGATTGCTGAGGAGACC
TCAGAGTTCCTGGAGCAGCAACTCACCAGCGACATCATCATGTCCGACAGCTACCTCCGTCGCCGCCCT
CACCAAGGCTGGAGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



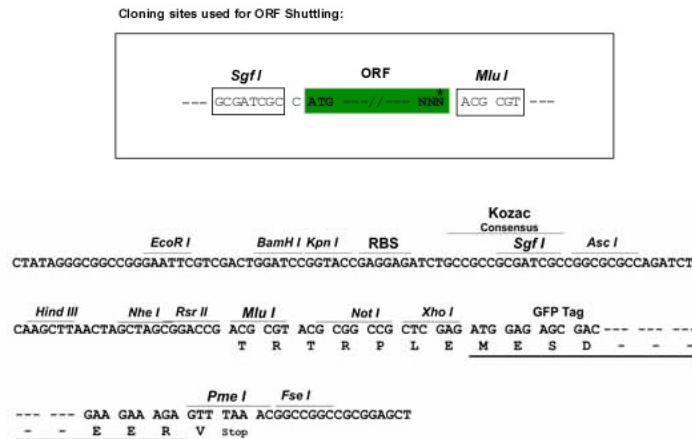
Protein Sequence: >MG216498 representing NM_175470
 Red=Cloning site Green=Tags(s)

MESSPIQSSGNSSTLGRALQTPGPSTASGVPELGLRDVASESVALFFMLLLDLTAVAGNAAVMAVIAKT
 PALRKFVVFVHLCVLDLLAALTLMPLAMLSSSALFDHALFGEVACRLYLFLSVCVSLAILSVSAINVER
 YYYVHPMRYEVRMTLGLVASVLGVVWKALAMASVPVLRVYWEEGAPSVNPGCSLQWSHAYCQLFVV
 VFAYLVFLLPLILIFVVYCSMFRVARVAAMQHGPLPTWMETPRQRSELSRSTMVTSAGAHQTPHRTF
 GGGKAAVLLAVGGQFLLCWLPYFSFHLVVALSAQPI SAGQVENVVTWIGYFCFTSNPFFYGCLNRQIRG
 ELSKQFVCFKAAPEEELRLPSREGSIEENFLQLQGTSENWVSRPLPSPKREPPVVDFRIPGQIAEET
 SEFLEQQLTSDIIMSDSYLRPAPSPRLES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175470

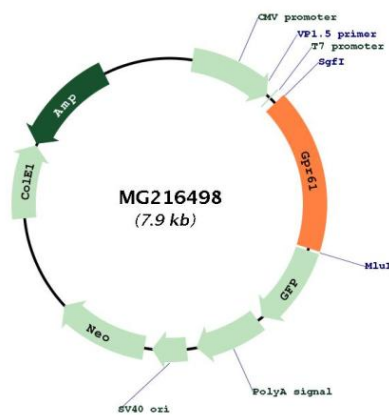
ORF Size: 1347 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_175470.4 , NP_780679.2
RefSeq Size:	3686 bp
RefSeq ORF:	1350 bp
Locus ID:	229714
Cytogenetics:	3 F2.3
Gene Summary:	Orphan G-protein coupled receptor. Constitutively activates the G(s)-alpha/cAMP signaling pathway (By similarity). Shows a reciprocal regulatory interaction with the melatonin receptor MTNR1B most likely through receptor heteromerization (By similarity). May be involved in the regulation of food intake and body weight (PubMed:21971119).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG216498