

Product datasheet for **RG218486**

GPR87 (NM_023915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR87 (NM_023915) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR87
Synonyms:	FKSG78; GPR95; KPG_002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218486 representing NM_023915 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTTCAACTTGACGCTTGCAAAATTACCAAATAACGAGCTGCACGGCCAAGAGAGTCACAATTCAG
GCAACAGGAGCGACGGCCAGGAAAGAACCACCCTTCACAATGAATTTGACACAATTGTCTTGCCGGT
GCTTTATCTCATTATATTTGGCAAGCATCTTGCTGAATGGTTAGCAGTGTGGATCTTCTCCACATT
AGGAATAAAACCAGCTTCATATTCTATCTCAAAAACATAGTGGTTGCAGACCTCATAATGACGCTGACAT
TTCCATTTGGAATAGTCCATGATGCAGGATTTGGACCTTGGTACTTCAAGTTTATTCTCTGCAGATACAC
TTCAGTTTGTATGCAAAACATGATACTTCCATCGTGTTCCTTGGGCTGATAAGCATTGATCGCTAT
CTGAAGGTGGTCAAGCCATTTGGGGACTCTCGGATGTACAGCATAACCTTACGAAGTTTTATCTGTTT
GTGTTTGGGTGATCATGGCTGTTTTGTCTTTGCCAAACATCATCCTAACAAATGGTCAGCCAACAGAGGA
CAATATCCATGACTGCTCAAACTTAAAAGTCCTTTGGGGTCAAATGGCATAACGGCAGTCACCTATGTG
AACAGCTGCTGTTTTGTGGCCGTGCTGGTGATTCTGATCGGATGTTACATAGCCATATCCAGGTACATCC
ACAAATCCAGCAGGCAATTCATAAGTCAGTCAAGCCGAAAGCGAAACATAACCAGAGCATCAGGGTTGT
TGTGGCTGTGTTTTTACCTGCTTCTACCATACACTTGTGCAGAATTCCTTTTACTTTTAGTCACTTA
GACAGGCTTTAGATGAATCTGCACAAAAATCCTATATTACTGCAAAGAAATTACACTTTTCTTGTCTG
CGTGAATGTTTGCCTGGATCCAATAATTTACTTTTTTCATGTGTAGGTCATTTTCAAGAAGCTGTTCAA
AAAATCAAATATCAGAACCAGGAGTGAAAGCATCAGATCACTGCAAAGTGTGAGAAGATCGGAAGTTCGC
ATATATTATGATTACACTGATGTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218486 representing NM_023915
 Red=Cloning site Green=Tags(s)

MGFNLTAKLPNNELHGQESHNSGNRSDGPGKNTTLHNEFDITVLPVLYLIIFVASILLNGLAVWIFFHI
 RNKTSFIFYLKNIIVVADLIMTLTFPFRIVHDAGFGPWYFKFILCRYTSVLFYANMYTSIVFLGLISIDRY
 LKVVKPFGDSRMYISITFTKVLVVCVWVIMAVLSLPNIILTNGQPTEDNIHDCSKLKSP LGVKWHTAVTYV
 NSCLFVAVLVILIGCYIAISRYIHKSSRQFISQSSRKRKHNSIRVVVAVFFTCFLPYHLCRIPFTFSHL
 DRLLDESAQKILYCKEITLFLSACNVCLDPIIYFFMCRSFSRRLFKKSNIRTRSESIRSLQSVRRSEVR
 IYYDYTDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023915

ORF Size: 1074 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_023915.4](#)

RefSeq Size: 1498 bp

RefSeq ORF: 1077 bp

Locus ID: 53836

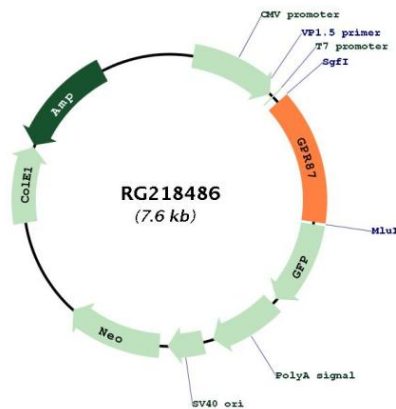
UniProt ID: [Q9BY21](#)

Cytogenetics: 3q25.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene encodes a G protein-coupled receptor and is located in a cluster of G protein-coupled receptor genes on chromosome 3. The encoded protein has been shown to be overexpressed in lung squamous cell carcinoma (PMID:18057535) and regulated by p53 (PMID:19602589). [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG218486