

Product datasheet for **RG222702**

GPR64 (ADGRG2) (NM_005756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR64 (ADGRG2) (NM_005756) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR64
Synonyms:	CBAVDX; EDDM6; GPR64; HE6; TM7LN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222702 representing NM_005756 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTTCTCTGTCAGGCAGTGTGGCCATGTTGGCAGAAGTGAAGAAGTTTTACTGACGTTCAAGATAT
TCCTTGCATCATTGTCTTCATGTCGTTCTGGTAACATCCCTGGAAGAAGATACTGATAATCCAGTTT
GTCACCACCACCTGCTAAATTACTGTTGTCAGTTTTGCCCTCCTCCAATGAGGTTGAAACAACAAGC
CTCAATGATGTTACTTTAAGCTTACTCCCTCAAACGAAACAGAAAACTAAAACTACTATAGTAAAA
CCTTCAATGCTTCAGGCGTCAAACCCAGAGAAATATCTGCAATTTGTCATCTATTTGCAATGACTCAGC
ATTTTTAGAGGTGAGATCATGTTCAATATGATAAAGAAAGCACTGTTCCCGAATCAACATATAACG
AATGGCACCTTAAGTGGAGTCTGTCTCTAAGTGAATAAAACGCTCAGAGCTCAACAAAACCTGCAAA
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AATAAACTGAATAATAACAATGAATGCATGTGCTGCAATAGCCGCTTTGGAAAGAGTAAAGATTCGACCA
ATGGAACACTGCTGCTGTCTGTGTCAGGATACCCTGCCCTTCTCCCGAAGAGTTGGGAAAGCTTCAGT
GTGACCTGCAGGATCCCATTGTCTGTCTGCTGACCATCCAGTGGCCACCATTTCTCCAGCCAATC
CATCCCAGTGGTGCCTCGGGCCACTGTGCTTTCCAGGTCCCCAAAGCTACCTCTTTTGTGAGCCTCCA
GATTATCACCTGTGACCCACAATGTTCCCTCTCCAATAGGGGAGATTCAACCCCTTCCACCCAGCCTT
CAGTCCCATAGCTTCCAGCCCTGCCATTGACATGCCCCACAGTCTGAAACGATCTCTCCCTATGCC
CCAAACCCATGTCTCCGGCACCCACCTCCTGTGAAAGCCTCATTTTCTCTCCACCGTGTCTGCCCT
GCGAATGTCAACTACCAGCGCACCTCCTGTCCAGACAGACATCGTCAACACCAGCAGTATTTCTGATC
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TGCAAATCTCAGTTTTCTGTGAAACCAAGCTCCTGAGAACAGTATTGGCACAATTACTTCTCTTCA



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TCGCTGATGAATAATTTACCAGCTCATGACATGGAGCTAGCTTCCAGGGTTCAGTTCAATTTTTTTGAAA
CACCTGCTTTGTTTCAGGATCCTTCCCTGGAGAACCTCTCTGATCAGTACGTACATATCATCGAGTGT
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GGAGGGATTACCTTCCAAAATCCTCATCCAGCTGTGTGCTGCTGCTTCTGCTGAACCTGGTCTTCTCT
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TACAGAGAGGAATGGGGTCTCTTTAGTGTTCAGAATGGAGATGTGTGCCTTACGATTTACTGGAAAA
CAGCACATGTTTAAACGAGAAGGAAGATTCTGCAATGGGAAAGCCGTATGGCTCTCAGAAGGACTTCAA
AGCGGGGAAGCTTACACTTTATTGAGCAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222702 representing NM_005756
Red=Cloning site Green=Tags(s)

MVFSVRQCGHVGRTEEVLLTFKIFLVIICLHVVLVTSLEEDTDNSSLSPPPAKLSVVSFAPSSNEVETTS
LNDVTLSELLPSNETEKTIIVKTFNASGVKQQRNICNLSSICNDSAFFRGEIMFYDKESTVPOQHIT
NGLTGVLSLSELKRSELNKTQLTSETYFIMCATAEAQSTLNCTFTIKLNNMTMNACAAIAALERVKIRP
MEHCCCSVRIPCSSPEELGKLQCDLQDPVCLADHPRGPPFSSSQSIPVVPRATVLSQVPKATSFSAEPP
DYSPTVTHNVPSPIGEIQPLSPQPSAPIASSPAIDMPPQSETISSPMPQTHVSGTPPPVKASFSSPTVSAP
ANVNTTSAPPVQTDIVNTSSISDLENQVLQMEKALSLGSLEPNLAGEMINQVSRLLHSPDMLAPLAQRL
LKVVDIDIGLQLNFSNTTISLTSPLALAVIRVNASSFNNTTFFVAQDPANLQVSLETQAPENSIGTITLPS
SLMNNLPAHDMELASRVQFNFFETPALFQDPSLENLSLISYVISSVANLTVRNLTRNVTVTLKHINPSQ
DELTVRCVFWDLGRNGRGWSDNGCSVKDRRLNETICTSHLTSFGVLLDLRSTSVLPAQMMLTFITY
IGCGLSSIFLSVTLVTYIAFEKIRRDYPSKILIQCAALLLNLFLLDSWIALYKMQGLCISVAVFLHY
FLLVSFTWMGLEAFHMYLALVKVFNTYIRKYILKFCIVGWGVPVVVTTILTISPDPNYGLSGYKFPNGS
PDDFCWINNNAVFYITVVGYFCVIFLLNVSMFIVVLVQLCRIKKKQLGAQRKTSIQDLRSIAGLTFLLG
ITWGF AFFAWGPVNVTFMYLFAIFNTLQGFIFIFCYVAKENVRKQWRRYLCCGKRLAENSWSKTATN
GLKKQTVNQGVSSSSNSLQSSSNSTNTLLVNNDCSVHASGNGNASTERNGVSFVSQNGDVCLHDFTGK
QHMFNEKEDSCNGKGRMALRRTSKRGSLSHFIEQM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005756

ORF Size: 3042 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:

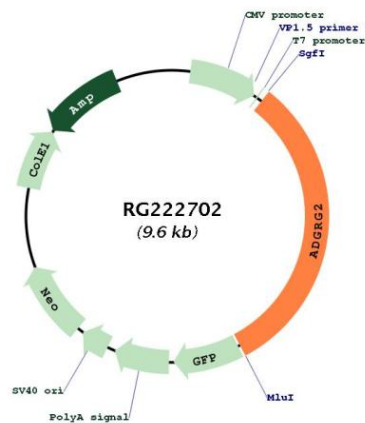
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_005756.1](#), [NP_005747.1](#)

RefSeq Size: 4665 bp

RefSeq ORF:	3045 bp
Locus ID:	10149
UniProt ID:	Q8IZP9
Cytogenetics:	Xp22.13
Domains:	GPS, 7tm_2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	This gene encodes a member of the G protein-coupled receptor family described as an epididymis-specific transmembrane protein. The encoded protein may be proteolytically processed as it contains a motif shown to be a protein scission motif in some members of this family (PMID: 11973329). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG222702