

Product datasheet for **RG224530**

GPR64 (ADGRG2) (NM_001079858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR64 (ADGRG2) (NM_001079858) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADGRG2
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:	>RG224530 representing NM_001079858 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTTCTGTCTCAGGCAGTGTGGCCATGTTGGCAGAAGTGAAGAAGTTTTACTGACGTTCAAGATAT
TCCTTGTGCATCATTTGTCTTCATGTCGTTCTGGTAACATCCCTGGAAGAAGATACTGATAATCCAGTTT
GTCACCACCACCTGCTAAATTATCTGTTGTCAGTTTTGCCCTCCTCCAATGGTACTCCAGAGGTTGAA
ACAACAAGCCTCAATGATGTTACTTTAAGCTTACTCCCTCAAACGAAACAGAAAAACTAAAATCACTA
TAGTAAAAACCTCAATGCATCAGCGTCAAACCCAGAGAAATATCTGCAATTTGTCATCTATTTGCAA
TGACTCAGCATTTTTAGAGGTGAGATCATGTTTCAATATGATAAAGAAAGCACTGTTCCCGAATCAA
CATATAACGAATGGCACCTTAACTGGAGTCTGTCTCTAAGTGAATTAACGCTCAGAGCTCAACAAAA
CCCTGCAAACCTAAGTGAGACTTACTTTATAATGTGTGCTACAGCAGAGGCCAAAGCACATTAATTTG
TACATTCACAATAAACTGAATAATAAATGAATGCATGTGCTGTAATAGCTGCTTTGAAAAGAGTAAAG
ATTCGACCAATGGAACACTGCTGCTGTTCTGTCAGGATACCCTGCCCTTCTCCCGAAGAGTTGGAAA
AGCTTCAGTGTGACCTGCAGGATCCCATTTGCTGTCTTGTGACCATCCACGTGGCCACCATTTTCTTC
CAGCCAATCCATCCAGTGGTGCCTCGGGCCACTGTGCTTTCCAGGTCCCAAAGCTACCTCTTTTGTCT
GAGCCTCCAGATTATTCACCTGTGACCAACAATGTTCCCTCTCCAATAGGGGAGATCAACCCCTTTCAC
CCAGCCTTCAGTCCCATAGCTTCCAGCCCTGCCATTGACATGCCCCACAGTCTGAAAACGATCTCTTC
CCCTATGCCCAAACCATGTCTCCGGCACCCACCTCCTGTGAAAGCCTCATTTTCTCTCCACCGTG
TCTGCCCTGCGAATGTCAACACTACCAGCGCACCTCCTGTCCAGACAGACATCGTCAACACCAGCAGTA
TTTCTGATCTTGAGAACCAAGTGTGAGATGGAGAAGGCTCTGTCTTGGGCAGCCTGGAGCCTAACCT
CGCAGGAGAAATGATCAACCAAGTCAGCAGACTCCTTCATTCCCCGCTGACATGCTGGCCCTCTGGCT
CAAAGATTGCTGAAAGTAGTGGATGACATTGGCCTACAGCTGAACTTTTCAAACACGACTATAAGTCTAA
CCTCCCTTCTTTGGCTCTGGCTGTGATCAGAGTGAATGCCAGTAGTTTCAACACAACACTACCTTTGTGGC
CCAAGACCTGCAATCTTCAGGTTTCTCTGAAACCAAGCTCCTGAGAACAGTATTGGCACAACTACT



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CTTCCTTCATCGCTGATGAATAATTTACCAGCTCATGACATGGAGCTAGCTTCCAGGGTTCAAGTTCAATT
 TTTTTGAAACACCTGCTTTGTTTCAGGATCCTTCCCTGGAGAACCTCTCTCTGATCAGCTACGTCATATC
 ATCGAGTGTGCAAACCTGACCGTCAGGAACCTGACAAGAAACCTGACAGTCACATTAAGCACATCAAC
 CCGAGCCAGGATGAGTTAACAGTGAGATGTGTATTTGGGACTTGGGCAGAAATGGTGGCAGAGGAGGCT
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 AAGCTTCGGCGTCTGCTGGACCTATCTAGGACATCTGTGCTGCCTGCTCAAATGATGGCTCTGACGTTG
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 AAAAGATCCGGAGGGATTACCCTTCCAAAATCCTCATCCAGCTGTGTGCTGCTCTGCTTCTGCTGAACCT
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 TGTGGTTGTGACCATCATCTGACTATATCCCCAGATAACTATGGGCTTGGATCCTATGGGAAATCCCC
 AATGGTTCACCGGATGACTTCTGCTGGATCAACAACAATGCAGTATTCTACATTACGGTGGTGGGATATT
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 GAAGCAATGGAGGCGGTATCTTTGTTGTGGAAAGTTACGGCTGGCTGAAAATTCTGACTGGAGTAAACT
 GCTACTAATGGTTTAAAGAAGCAGACTGTAACCAAGGAGTGTCCAGCTCTTCAAATTCCTTACAGTCAA
 GCAGTAACTCCACTAACTCCACCACACTGCTAGTGAATAATGATTGCTCAGTACACGCAAGCGGGAATGG
 AAATGCTTCTACAGAGAGGAATGGGGTCTCTTTAGTGTTCAGAATGGAGATGTGTGCTTACAGATTTC
 ACTGAAAACAGCACATGTTAACGAGAAGGAAGATTCTGCAATGGGAAAGCCGTATGGCTCTCAGAA
 GGACTTCAAAGCGGGGAAGCTTACACTTTATTGAGCAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224530 representing NM_001079858
 Red=Cloning site Green=Tags(s)

MVFSVRQCGHVGRTEEVLLTFKIFLVIICLHVVLVTSLEEDTDNSLSPPPAKLSVVSFAPSSNGTPEVE
 TTSLNDVTLSSLPSNETEKTITIVKTFNASGVKQQRNICNLSSICNDSAFFRGEIMFYDKESTVPQNG
 HITNGTLTGVLSELKRSELNKTQLTSETYFIMCATAEAQSTLNCTFTIKLNNTMNACAVIAALERVK
 IRPMEHCCSVRIPCPSPEELEKLQCDLQDPIVCLADHPRGPPFSSSQSIPVVPRATVLSQVPKATSFA
 EPPDYSVPTHNVPSPIGEIQPLSPQPSAPIASSPAIDMPPQSETISSPMPQTHVSGTTPPVKASFSSPTV
 SAPANVNTTSAPPVQTDIVNTSSISDLENQVLQMEKALSLGSLEPNLAGEMINQVSRLLHSPPDMLAPLA
 QRLLKVDDIGLQLNFSNTTISLTSPLALAVIRVNASSFNNTTFVAQDPANLQVSLETQAPENSIGTIT
 LPSSLMNNLPAHDMELASRVQFNFFETPALFQDPSLENLSLISYVISSVANLTVRNLTRNVTVTLKHIN
 PSQDELTVRCVFDLGRNGGRGWSDNNGCSVKDRRLNETICTCSHLTSFGVLLDLRSVLPQMMALTF
 ITYIGCGLSSIFLSVTLVTYIAFEKIRRDYPSKILIQCAALLLNLFLLDSWIALYKMQGLCISVAVF
 LHYFLLVSFTWMGLEAFHMYLALVKVFNTYIRKYILKFCIVGWGVPVVVVTIILTISPNDYGLGSYGKFP
 NGSPDDFCWINNNAVFYITVVGYFCVIFLLNVSMFIVVLVQLCRIKKKQLGAQRKTSIQDLRSIAGLTF
 LLGITWGF AFFAWGPVNVTFMYLFAIFNTLQGGFFIFIFCYAKENVRKQWRRYLCCGKLRLENSDWSKT
 ATNGLKKQTVNQGVSSSSNSLQSSSNSTNTSTLLVNNDCSVHASGNNGASTERNGVSVQNGDVLHDF
 TGKQHFNEKEDSCNGKGRMALRRTSKRGSLSHFIEQM

TRTRPLE - GFP Tag - V

Restriction Sites:

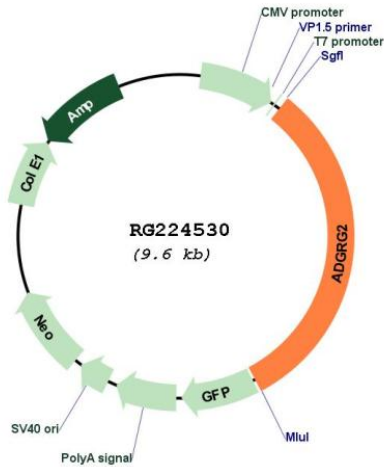
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001079858
 ORF Size: 3051 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001079858.3</p>
RefSeq Size:	<p>4895 bp</p>
RefSeq ORF:	<p>3054 bp</p>
Locus ID:	<p>10149</p>
UniProt ID:	<p>Q8IZP9</p>
Cytogenetics:	<p>Xp22.13</p>
Protein Families:	<p>Druggable Genome, GPCR, Transmembrane</p>
Gene Summary:	<p>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]</p>