

## Product datasheet for RC230601

### GPR64 (ADGRG2) (NM\_001184837) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR64 (ADGRG2) (NM_001184837) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADGRG2
Synonyms:	CBAVDX; EDDM6; GPR64; HE6; TM7LN2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230601 representing NM_001184837 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGTTTTCTCTGTCAGGCAGTGTGGCCATGTTGGCAGAAGTGAAGAAGTTTTACTGACGTTCAAGATAT  
TCCTTGTCATCATTTGTCTTCATGTCGTTCTGGTAACATCCCTGGAAGAAGATACTGATAATCCAGTTT  
GTCACCACCACCTGAGGTTGAAACAACAAGCCTCAATGATGTTACTTTAAGCTTACTCCCTCAAACGAA  
ACAGGCGTCAAACCCAGAGAAATATCTGCAATTTGTCATCTATTTGCAATGACTCAGCATTTCAGAG  
GTGAGATCATGTTTCAATATGATAAAGAAAGCACTGTTCCCGAGAATCAACATATAACGAATGGACCTT  
AACTGGAGTCTGCTCTAAGTGAATAAAACGCTCAGAGCTCAACAAAACCCCTGCAAACCTAAGTGAG  
ACTTACTTTATAATGTGTGCTACAGCAGAGGCCAAAGCACATTAATTTGACATTCACAATAAACTGA  
ATAATAACAATGAATGCATGTGCTGTAATAGCTGCTTTGGAAAGAGTAAAGATTGACCAATGGAACACTG  
CTGCTGTTCTGTCAGGATACCCTGCCCTTCCTCCCGAAGAGTTGGAAGGCTTCAGTGTGACCTGCAG  
GATCCCATTGTCTGTCTGTGACCATCCACGTGGCCACCATTTCTCCAGCCAATCCATCCCAGTGG  
TGCTCGGGCCACTGTGCTTTCCAGGTCGCCAAAGCTACCTCTTTTGGTGGCCCTCCAGATTATTCACC  
TGTGACCCACAATGTTCCCTCTCCAATAGGGGAGATTCAACCCCTTTCACCCAGCCTTCAGCTCCATA  
GCTTCCAGCCCTGCCATTGACATGCCCCACAGCTGAAACGATCTCTCCCTATGCCCAAACCCATG  
TCTCCGGCACCCACCTCCTGTGAAAGCCTCATTTTCTCTCCACCGTGTGCCCCTGCGAATGTCAA  
CACTACCAGCGCACCTCCTGTCCAGACAGACATCGTCAACACCAGCAGTATTTCTGATCTTGAGAACCAA  
GTGTTGCAGATGGAGAAGGCTCTGCTTGGGCAGCCTGGAGCCTAACCTCGCAGGAGAAATGATCAACC  
AAGTCAGCAGACTCCTTCATTCCCGCCTGACATGCTGGCCCTCTGGCTCAAAGATTGCTGAAAGTAGT  
GGATGACATTGGCTACAGCTGAACTTTCAAACAGACTATAAGTCTAACCTCCCCTTCTTTGGCTCTG  
GCTGTGATCAGAGTGAATGCCAGTAGTTTCAACACAACCTACCTTTGTGGCCCAAGACCCTGCAAATCTT  
AGGTTTTCTGGAACCCAAGCTCCTGAGAACAGTATTGGACAATTACTTTCCTTCATCGCTGATGAA  
TAATTTACCAGCTCATGACATGGAGCTAGCTTCCAGGTTTCAGTTCAATTTTTTGAACACCTGCTTTG  
TTTCAGGATCCTTCCCTGGAGAACCTCTCTGATCAGCTACGTCATATCATCGAGTGTGCAAACCTGA



[View online »](#)

CCGTCAGGAACCTTGACAAGAAACGTGACAGTCACATTAAGCACATCAACCCGAGCCAGGATGAGTTAAC  
 AGTGAGATGTGTATTTGGGACTTGGGCAGAAATGGTGGCAGAGGAGGCTGGTCAGACAATGGCTGCTCT  
 GTCAAAGACAGGAGATTGAATGAAACCATCTGTACCTGTAGCCATCTAACAGCTTCGGCGTTCTGCTGG  
 ACCTATCTAGGACATCTGTGCTGCCTGCTCAATGATGGCTCTGACGTTTACATATATTGGTTGTGG  
 GCTTTCATCAATTTTCTGTGCTGACTCTTGTAACTACATAGCTTTTAAAAGATCCGGAGGGATTAC  
 CCTTCCAAAATCCTCATCCAGCTGTGTGCTGCTGCTTCTGCTGAACCTGGTCTTCTCCTGGACTCGT  
 GGATTGCTCTGTATAAGATGCAAGGCCTCTGCATCTCAGTGGCTGTATTCTTCATTATTTTCTCTGGT  
 CTATTACATGGATGGGCCTAGAAGCATTCCATATGTACCTGGCCCTGTCAAAGTATTTAATACTTAC  
 ATCCGAAAATACATCCTTAAATTCTGCATTGTCGGTTGGGGGTACCAGCTGTGGTTGTGACCATCATCC  
 TGAATATATCCCCAGATAACTATGGGCTTGGATCCTATGGGAAATCCCCAATGGTTCACCGGATGACTT  
 CTGCTGGATCAACAACAATGCAGTATTCTACATTACGGTGGTGGGATATTTCTGTGTGATATTTTGTG  
 AACGTCAGCATGTTTATTGTGGTCTGGTTCAGCTCTGTGAATAAAAAGAAGAAGCAACTGGGAGCCC  
 AGCGAAAACAGTATTCAAGACCTCAGGAGTATCGTGGCCTTACATTTTACTGGGAATAACTGGGG  
 CTTTGCCTCTTTGCCTGGGACCAGTTAACGTGACCTTCATGTATCTGTTTGCATCTTAATACCTTA  
 CAAGGATTTTTCATATTCATCTTTACTGTGTGGCCAAAGAAAATGTCAGGAAGCAATGGAGGCGGTATC  
 TTTGTTGTGAAAAGTTACGGCTGGCTGAAAATTCTGACTGGAGTAAAACCTACTAATGGTTTAAAGAA  
 GCAGACTGTAACCAAGGAGTGTCCAGCTCTTCAAATTCCTTACAGTCAAGCAGTAACTCCACTAACTCC  
 ACCACACTGCTAGTGAATAATGATTGCTCAGTACACGCAAGCGGGAATGGAAATGCTTCTACAGAGAGGA  
 ATGGGGTCTCTTTAGTGTTCAGAAATGGAGATGTGTGCCTTACGATTTCACTGGAAAACAGCACATGTT  
 TAACGAGAAGGAAGATTCCTGCAATGGGAAAGGCCGTATGGCTCTCAGAAGGACTTCAAAGCGGGGAAGC  
 TTACACTTTATTGAGCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230601 representing NM\_001184837  
 Red=Cloning site Green=Tags(s)

MVFSVRQCGHVGRTEEVLLTFKIFLVIICLHVVLVTSLEEDTDNSLSPPEVETTSLNDVTL SLLPSNE  
 TGVKPQRNICNLSSICNDSAFFRGEIMFYDKESTVPQNHITNGTLTGVLSELKRSELNKTQLTSE  
 TYFIMCATAEAQSTLNCTFTIKLNNTMNAACAVIAALERVKIRPMEHCCSVRIPCSPSPEELEKLQCDLQ  
 DPIVCLADHPRGPPFSSSQSIPVVPRAVLSQVPKATSFAPPDYSPVTHNVPSPIGEIQPLSPQPSAPI  
 ASSPAIDMPPQSETISSPMPQTHVSGTTPPVKASFSSPTVSAPANVNTTSAPPVQTDIVNTSSISDLENQ  
 VLQMEKALSLGSLEPNLAGEMINQVSRLLHSPDMLAPLAQRLLKVDDIGLQLNFSNTTISLTSPLSAL  
 AVIRVNASSFNNTTFFVAQDPANLQVSLETQAPENSIGTITLPSLMMNLPAHDMELASRVQFNFFETPAL  
 FQDPSLENLSLISYVISSVANLTVRNLTRNVTVTLKHINPSQDELTVRCVFWDLGRNGRGGWSDNGCS  
 VKDRRLNETICTCSHLTSFGVLLDL SRTSVLPAQMMALTFITYIGCGLSSIFLSVTLVTYIAFEKIRRDY  
 PSKILIQLCAALLLNLFVLLDSWIALYKMQGLCISVAVFLHYFLLVSFTWMGLEAFHMYLALVKVFNTY  
 IRKYILKFCIVGWGVPVAVVTIILTISPNDYGLGSYGKFPNGSPDDFCWLNNAVYITVVGYFCVIFLL  
 NVSMFIVVLVQLCRIKKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGAFFAWGPVNVTFMYLFAIFNTL  
 QGFFIFIFICYVAKENVRKQWRRYLCCGKLRLAENSDWSKTATNGLKKQTVNQVSSSSNSLQSSSNSTNS  
 TTLLVNNDCSVHASGNNGASTERNVGSFSVQNGDVCLHDFTGKQHFNEKEDSCNGKGRMALRRTSKRGS  
 LHFIEQM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

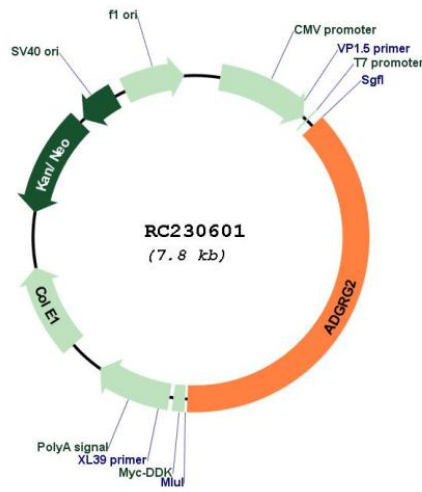
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001184837  
 ORF Size: 2961 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001184837.2</a>
<b>RefSeq ORF:</b>	2964 bp
<b>Locus ID:</b>	10149
<b>UniProt ID:</b>	<a href="#">Q8IZP9</a>
<b>Cytogenetics:</b>	Xp22.13
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>MW:</b>	108.9 kDa
<b>Gene Summary:</b>	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]