

## Product datasheet for RC230606

### GPR64 (ADGRG2) (NM\_001184836) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR64 (ADGRG2) (NM_001184836) 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:	>RC230606 representing NM_001184836 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGTTTTCTCTGTCAGGCAGTGTGGCCATGTTGGCAGAACTGAAGAAGTTTTACTGACGTTCAAGATAT  
TCCTTGTCATCATTTGTCTTCATGTCGTTCTGGTAACATCCCTGGAAGAAGATACTGATAATCCAGTTT  
GTCACCACCACCTGATGTTACTTTAAGCTTACTCCCTTCAAACGAAACAGAAAACTAAAACTACTATA  
GTAAAAACCTTCAATGCATCAGGCGTCAAACCCAGAGAAATATCTGCAATTTGTCATCTATTTGCAATG  
ACTCAGCATTTTTAGAGGTGAGATCATGTTTCAATATGATAAAGAAAGCACTGTTCCCCAGAATCAACA  
TATAACGAATGGCACCTAACTGGAGTCTGTCTTAAGTGAATAAAACGCTCAGAGCTCAACAAAACC  
CTGCAAAACCTAAGTGAGACTTACTTTATAATGTGTGCTACAGCAGAGGCCCAAAGCACATTAATTTGTA  
CATTACAATAAACTGAATAATAAATGAATGCATGTGCTGTAATAGCTGCTTTGGAAAGAGTAAAGAT  
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GCCAATCCATCCCAGTGGTGCCTCGGGCCACTGTGCTTTCCAGGTCCCAAGCTACCTCTTTTGCTGA  
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CAGCCTTCAGCTCCCATAGCTTCCAGCCCTGCCATTGACATGCCCCACAGTCTGAAACGATCTCTTCCC  
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CAGGAGAAATGATCAACCAAGTCAGCAGACTCCTTCATCCCCGCTGACATGCTGGCCCTCTGGCTCA  
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CGAGTGTGCAAACCTGACCGTCAGGAACCTTGACAAGAAACGTGACAGTCACATTAAGCACATCAACCC  
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 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230606 representing NM\_001184836  
 Red=Cloning site Green=Tags(s)

MVFSVRQCGHVGRTEEVLLTFKIFLVIICLHVVLVTSLEEDTDNSLSPPPDVTLSLLPSNETEKTKITI  
 VKTFNASGVKQPNICNLSSICNDSAFFRGEIMFYDKESTVPQNHITNGTLTGVLSELKRSELNKT  
 LQTLSEYFIMCATAEAQSTLNCTFTIKLNNTMNACAVIAALERVKIRPMEHCCSVRIPCSSPEELEK  
 LQCDLQDPIVCLADHPRGPPFSSSQSIPVVPRAVLSQVPKATSFAPPDYSPVTHNVPSPIGEIQPLSP  
 QPSAPIASSPAIDMPPQSETISSPMPQTHVSGTPPPVKASFSSPTVSAPANVNTSAPPVQTDIVNTSSI  
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 FETPALFQDPSLENLSLISYVISSVANLTVRNLTRNVTVTLKHINPSQDELTVRCVFWDLGRNGGRGGW  
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 KIRRDYPSKILIQLCAALLLNLFLLDSWIALYKMQGLCSVAVFLHYFLLVSFTWMGLEAFHMYLALV  
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 CVIFLLNVSMFIVVLVQLCRIKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGAFFAWGPVNVTFMYLF  
 AIFNTLQGFIFIFYCVAKENVRKQWRRYLCCGKLRLAENSDWSKTATNGLKKQTVNQGVSSSSNSLQSS  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

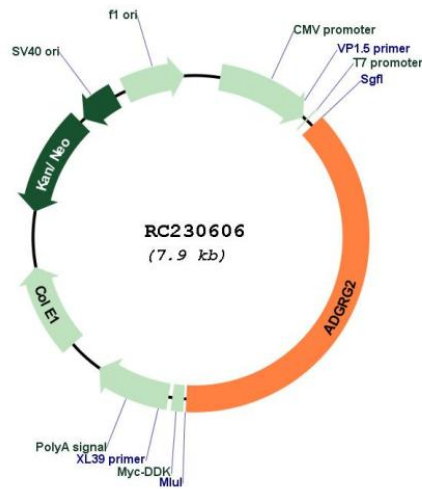
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001184836  
ORF Size: 2979 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_001184836.1</a> , <a href="#">NP_001171765.1</a>
<b>RefSeq ORF:</b>	2982 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>	109.6 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]