

Product datasheet for **RC216072**

GPR177 (WLS) (NM_001002292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR177 (WLS) (NM_001002292) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR177
Synonyms:	C1orf139; EVI; GPR177; mig-14; MRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216072 representing NM_001002292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGGGGCAATTATAGAAAACATGAGCACCAAGAAGCTGTGCATTGTTGGTGGGATTCTGCTCGTGT
 TCCAAATCATCGCTTTCTGGTGGGAGGCTTGATTGGGCCACAACGGCAGTGTCTACATGTCCGTGAA
 ATGTGTGGATGCCCGTAAGAACCATCACAGACAAAATGGTTCGTGCCTTGGGGACCAATCATTGTGAC
 AAGATCCGAGACATTGAAGAGGCAATCCAAGGAAAATTGAAGCCAATGACATCGTGTTTCTGTTCACA
 TCCCCCTCCCCACATGGAGATGAGTCCTTGGTCCAATTCATGCTGTTTATCCTGCAGCTGGACATTGC
 CTTCAAGCTAAACAACCAAAATCAGAGAAAATGCAGAAGTCTCCATGGACGTTTCCCTGGCTTACCGTGAT
 GACGCGTTTGTGAGTGGACTGAAATGGCCATGAAAGAGTACCACGGAACTCAATGCACCTTCACAT
 CTCCCAAGACTCCAGAGCATGAGGGCCGTTACTATGAATGTGATGTCCTTCCCTTCATGAAATTTGGGTC
 TGTGGCCATAAGTTTTACCTTTAAACATCCGGCTGCCTGTGAATGAGAAGAAGAAAATCAATGTGGGA
 ATTTGGGGAGATAAAGGATATCCGGTTGGTGGGGATCCACCAAAAATGGAGGCTTCACCAAGGTGTGGTTTG
 CCATGAAGACCTTCTTACGCCAGCATCTTCATCATTATGGTGTGGTATTGGAGGAGGATCACCATGAT
 GTCCCCACCCAGTGCTTCTGGAAAAGTCATCTTGGCCTTGGGATTTCCATGACCTTTATCAATATC
 CCAGTGAATGGTTTTCCATCGGTTTGTACTGGACCTGGATGCTGCTGTTTGGTACATCCGACAGGGCA
 TCTTCTATGCGATGCTTCTGTCTTCTGGATCATCTTCTGTGGCAGCACATGATGGATCAGCACGAGCG
 GAACCACATCGCAGGGTATTGGAAGCAAGTCGGACCCATTGCCGTTGGCTCCTTCTGCCTTTCATATTT
 GACATGTGTGAGAGAGGGGTACAATCAGGAATCCCTTCTACAGTATCTGGACTACAGACATTGGAACAG
 AGCTGGCCATGGCCTTCATCATCTGTGGCTGGAATCTGCCTCTACTTCTGTTTCTATGCTTTCAT
 GGTATTTCAAGGTGTTTCGGAACATCAGTGGGAAGCAGTCCAGCCTGCCAGCTATGAGCAAAAGTCCGCGCG
 CTACACTATGAGGGGCTAATTTTTAGGTTCAAGTTCCTCATGCTTATCACCTGGCCTGCCTGCCATGA
 CTGTCTCTTCTTCATCGTTAGTCAGGTAACGGAAGGCCATTGGAATGGGGCGCGTCACAGTCCAAGT
 GAACAGTGCCTTTTTACAGGCATCTATGGGATGTGGAATCTGTATGCTTTGCTCTGATGTTCTTGAT
 GCACCATCCATAAAAATATGGAGAAGACCAGTCCAATGGAATGCAACTCCCATGTAATCGAGGGGAAG
 ATTTGTGCTTTGTTGTTTCGGAACCTTATCAAGAATTGTTACGCGCTTCGAAATATTCCTTCATCAATGA
 CAACGCAGCTTCTGGTATT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216072 representing NM_001002292
 Red=Cloning site Green=Tags(s)

MAGAIENMSTKLLCIVGGILLVFQIIAFLVGLIGPTTAVSYMSVKVDARKNHHKTKWFVPWGNHCD
 KIRDIEEAIPREIEANDIVFSVHIPLPHMEMSPWFQFMLFILQLDIAFKLNNQIRENAEVSMDVSLAYRD
 DAFAEWTEMAHERVPRKLKCTFTSPKTPHEGRYYECDVLPFMEIGSVAHKFYLLNIRLPVNEKKKINVG
 IGEIKDIRLVGIHQNGGFTKVVFAKFTLTPSIFIIIMVWYWRITMMSRPPVLLKIVIFALGISMTFINI
 PVEWFSIGFDWTWMLLFGDIRQGFYAMLLSFWIIFCGEHMMDQHERNHIAGYWKQVGPVAVGSFCLFIF
 DMCERGVQLTNPFSYIWTTDIGTELAMAFIIVAGICLCLYFLFLCFMVFQVFRNISGKQSSLPAMSKVRR
 LHYEGLIFRFKFLMLITLACAAMTVIFFIVSQVTEGHKWKGGVTVQVNSAFFTGIYGMWNLYVVALMFLY
 APSHKNYGEDQSNMQLPCKSREDCALFVSELYQELFSASKYSFINDNAASGI

SGP**TRRRLEQKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mk8066_e01.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001002292

ORF Size: 1629 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_001002292.3](#), [NP_001002292.3](#)

RefSeq Size: 2072 bp

RefSeq ORF: 1632 bp

Locus ID: 79971

UniProt ID: [Q5T9L3](#)

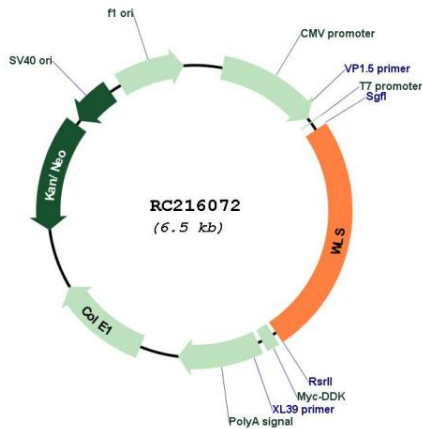
Cytogenetics: 1p31.3

Protein Families: Transmembrane

MW: 62.5 kDa

Gene Summary: Regulates Wnt proteins sorting and secretion in a feedback regulatory mechanism. This reciprocal interaction plays a key role in the regulation of expression, subcellular location, binding and organelle-specific association of Wnt proteins. Plays also an important role in establishment of the anterior-posterior body axis formation during development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216072