

Product datasheet for **MR207034**

Gpr177 (BC018381) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr177 (BC018381) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr177
Synonyms:	5031439A09Rik; AI173978; AI987742; Gpr177
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR207034 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGATGAGTCCATGTTCCAGTTTATGCTGTTTATCTTGCAGCTAGACATTGCTTTCAAGCTGAACA
ACCAAATCAGAGAAAATGCAGAAATTTCCATGGATGTTTCCCTGGGTACCGTGATGATATGTTTTCTGA
ATGGACTGAAATGGCCCATGAAAGAGTACCACGTAACCTCAAATGTACTTTTACATCCCCAAGACCCCA
GAGCACGAAGTCGTTATTATAATTGTGATGTCCTTTCCTTTCATGGAAATGGGTCAGTGGCTCATAAGT
ATTACCTTCTAAATATCCGGCTACCTGTAATGAGAAAAAGAAAATCAATGTTGGAATGGGGAGATAAA
GGACATTCGGTTGGTGGGAATCCACCAAAACGGAGGTTTCACTAAGGTATGGTTTGTATGAAGACCTTC
CTTACACCCAGCATCTTCATCATTATGGTGTGGTATTGGAGGAGGATCACCATGATGTCCCGACCTCCAG
TGCTTCTGGAAAAAGTCATCTTTCCTTGGGATTTCCATGACCTTTATCAATATCCCTGTGGAATGGTT
TTCTATTGGATTTGACTGGACCTGGATGCTGTTATTTGGTGACATCCGACAGGGCATCTTCTATGCAATG
CTTCTTTCTTTCTGGATCATCTTCTGTGGCGAGCATGATGGATCAACATGAACGGAATCACATTGCAG
GGTACTGGAAGCAAGTTGGACCAATTGCTGTTGGCTCCTTCTGCCTCTTCATATTTGACATGTGTGAAAG
AGGAGTACAACCTCACAATCCTTTCTACAGTATCTGGACTACAGATGTTGGAACGAACTGGCTATGGCT
TTCATCATTGTGGCAGGTATCTGCCTCTGCCTCTATTTCTGTTTCTGTGCTTTCATGGTATTTTCAGGTAT
TTAGAAACATCAGTGGGAAGCAGTCTAGCCTCCAGCCATGAGCAAAGTCCGGAGGCTGCACTATGAGGG
TCTGATCTTCAGGTTCAAGTTCCTCATGCTTATCACCTGGCTTGTGCTGCCATGACTGTTATCTTCTTC
ATCGTTAGTCAGGTGTCAGAAGCCATTGGAATGGGGTGGTGTACAGTTCAGTGAGCAGTGCCTTTCT
TCACTGGAATCTATGGGATGTGGAACCTGTATGTCTTTGCTTTGATGTTCTTGTATGCACCATCCATAA
GAACATGGGGAAGACCAGTCTAATGGTGACCTGGGTGTCCACAGCGGGGAAGAAGTGCAGCTTACTACC
ACTATAACCCATGTAGATGGACCAACTGAGATCTACAAGTTGACCCGTAAGAAGCACAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207034 protein sequence
Red=Cloning site Green=Tags(s)

MEMSPWFQFMLFILQLDIAFKLNNQIRENAEISMDVSLGYRDDMFSEWTEMAHERVPRKLKCTFTSPKTP
EHEGRYINCDVLPFMEIGSVAHKYYLLNIRLPVNEKKKINVGIGEIKDIRLVGIHQNGGFTKVVWFAMKTF
LTPSIFIIIMVWYRRITMMSRPPVLEKVFIFALGISMTFINIPVEWFSIGFDWTWMLLFGDIRQGIFYAM
LLSFWIIFCGEHMMDQHERNHIAGYWKQVGPVAVGSFCLFIFDMCERGVQLTNPFYSIWTTDVGTELAMA
FIIIVAGICLCLYFLFCFMVFQVFRNISGKQSSLPAMSKVRRRLHYEGLIFRFKFLMLITLACAAMTVIFF
IVSQVSEGHKWKGGVTVQVSSAFFGTGIYGMWNLVYFALMFLYAPSHKNYGEDQSNGLGVHSGEELQLTT
TITHVDGPTEIYKLRKEAQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: BC018381

ORF Size: 1323 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: [BC018381](#), [AAH18381](#)
RefSeq Size: 2188 bp

RefSeq ORF: 1325 bp

Locus ID: 68151

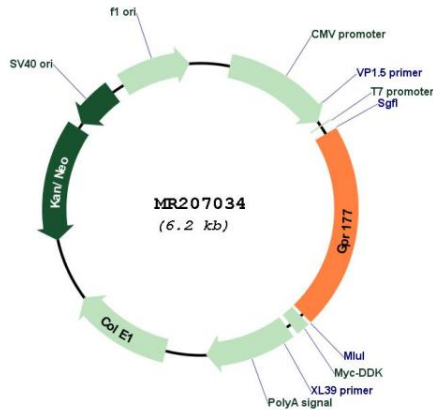
Cytogenetics: 3 H4

MW: 51.3 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207034