

Product datasheet for **MR223707**

Gpr151 (NM_181543) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr151 (NM_181543) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr151
Synonyms:	C130082O03Rik; GalRL; nGPCR-2037; PGR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223707 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAAAGGCAATGCTGAGAGCTGGGTTTGGCGACCAATTCCAGCAACATGAACGAGTCGTTTGCTC
 GCCTCCACTTTGCAGGAGGCTACCTGCCGCTGACTCCAAGGACTGGAGGACCATTCCTCGTCTCTCTT
 GATGGCCGTGTGCTGGTCTCGTGGGAACTGTGTGATTGGCATTCTCCTTCATGGCGTTTGG
 AAAAGAAAGCCATCCACGATCCACTCCCTGATTCTGAATCTAAGCCTGGCTGACTTCTCTCTCTCTCT
 TCTCTGCACCTGTCCGAGCGGCAGCATACTCCAAGGGCGTTTGGGATCTCGGCTGGTTTCTGCAAGTC
 CTCTGACTGGTTCACCCACGTGTGCATGGCAGCCAAGAGCTTGACATTTGTTGTGGTAGCCAAAGCATGC
 TTCGCGTATGCAAGTGACCCAGCCAAGCAAGAGAGTATCCACAGCCGACCATCTGGTCAGTCTGGCGG
 GCATCTGGGTTGAGCCAGCCTGCTCCCTGCCAGAATGGCTCTTTAGCACCACCAGACGTCACGCAGG
 TGTGAAAATGTGCCTCGTGGATGTGCCAGCTGTGCAGAGAATTCATGTCCATGTTCCGTAAGCTCTAC
 CCTCTGCTGGTGTCTGCCTTCCCTTACTTCTGGCTGGCGTTTATTTCTGGCGAGCTTATGACCAATGTA
 AGACACGATGTACGAAACTCGAAATCTGAGAGACCAGATGCGTTCAAAGCAACTCACAGTGATGCTGCT
 AAGCACTGCAATCATCTCTGCTTCTGTGGTCCCAGAGTGGATAGCCTGGCTGTGGGTATGGCATGTG
 AAGGCTGGAGGGCCGATGCCACCACAGGGTTCATAGCCCTGTCTCAAGTTCTCATGTTTTTACCTCCA
 CAGCAAACCTCTCATTTTTCTAGTTATGTCTGAAGAGTTCAAGGCAGGCTTCAAAGGCCTATGAAATG
 GATGATAACCAGAAAGCCAGCAGTTACTTCAGAGGTTCAAGGCAGGCTTCAAAGGCCTATGAAATG
 CCCGAAAGGCTCCATCACCAGAGACCCAAACATGCATCCTAGACACAGACGGACGTGGGTCCTGATG
 ACAGCAAAGAGAAATCTGGTAAGGTGGTGGCTCCCATCCTCCCTGACGTGGAGCAGTTTTTGGCACGAGAG
 GGATGCTGTCCCTCAGCACAAGACAATGACCTATACCCTGGGAACACGAAGGCCAAGAGACAGAGGGC
 TGCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223707 protein sequence
 Red=Cloning site Green=Tags(s)

MGKAMLRAGFADTNSSNMNESFARLHFAGGYLPDSKDWRTIIPSLLMAVCLVGLVGNLCVIGILLHGVM
 KRKPSTIHSLILNLSLADFSLLLSAPVRAAAYSKGVDLWGFICKSSDWFTHVCMMAKSLTFVVAKAC
 FAYASDPAKQESIHSRTIWSVLAGIWWVASLLPLPEWLFSTTRRHAGVEMCLVDVPAVAEEFMSMGKLY
 PLLVFCLPLLLAGVYFWRAYDQCKTRCTKTRNLRDQMRKQLTVMLLSTAIISALLWLPWIAWLWVWHV
 KAGGPMPPQGFIALSQVLMFFTSTANPLIFLVMSEEFKAGLKLWKMIMTRKPAVTSEVQEAPAGNTEAL
 PGKAPSPETQTCILDTDGRGSPDSSKEKSGKVVAIPILPDVEQFWHERDAVPSAQDNDPIPWEHEGQETEG
 CN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_181543

ORF Size: 1269 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_181543.2](#)
RefSeq Size: 1633 bp

RefSeq ORF: 1269 bp

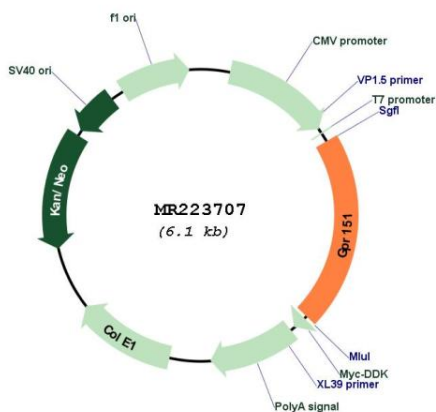
Locus ID: 240239

UniProt ID: [Q7TSN6](#)
Cytogenetics: 18 B3

MW: 46.8 kDa

Gene Summary: Proton-sensing G-protein coupled receptor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223707