

Product datasheet for **RR204537**

Gpr4 (NM_001025680) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gpr4 (NM_001025680) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Gpr4
 Synonyms: MGC116369
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR204537 representing NM_001025680
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAACAGCACGGGCACGTGGGAGGGCTGCCATGTGGACTCTCGAGTGGACCACCTCTCCACCAT
 CCCTCTACATCTTCGTCATCGGGTGGGGCTGCCACCAACTGCCTGGCCCTGTGGGCAGCTACCGCCA
 GGTGCGCCAGCGCAATGAGCTGGGCGTCTACCTGATGAACTTGAGCATCGCAGACCTGCTGTACATCTGT
 ACGCTGCCGCTGTGGGTCGACTACTTCCCTCCACCATGACAACGGATCCACGGCCCCGGCTCCTGCAAGC
 TCTTTGGCTTCATCTTCTACAGCAACATCTACATCAGCATCGCCTTCTGTGCTGCATCTCCGTGGACCG
 CTACCTGGCTGTGGCCATCCGCTGCGCTTTGCGCGCCTGCGCCGGGTCAAGACAGCAGTAGCTGTGAGC
 TCCGTGGTCTGGGCCACCGAGCTAGGCGCAACTCGGCACCGCTCTTTCATGACGAGCTCTTTCGTGATC
 GCTACAACCACACCTTCTGCTTCGAGAAGTTCCCATGGAGCGCTGGGTGGCCTGGATGAACCTGTACCG
 CGTCTTTGTGGGGTTCCTCTTCCCTGGGCACTCATGTTGCTGTGCTACCGCGGCATCCTGCGGGCCGTA
 CAGAGCAGTGTGCCACCGAGCGCCAGGAGAAAAGTCAAGATCAAACGCCCTGGCCCTGAGCCTCATCGCCA
 TCGTGTGGTGTGCTTTGCACCCTACCATGCTCTCTTGCTGTCTCGCAGCGCTGTCTATCTGGGCCGGCC
 CTGGGACTGTGGCTTCGAGGAGCGAGTCTTCTCTGCTACACAGCTCCCTAGCCTTACCAGCCTCAAT
 TGCGTGGCTGACCCATCCTCTACTGCCTGGTCAACGAGGGTGCCTAGTGACGTGGCCAAAGCCCTGC
 ACAACCTCCTCCGCTTCTGGCCAGCAACAAGCCCGAGGAGATGGCCAATGCTTCCCTCACCTGGAGAC
 ACCATTGACCTCCAAGAGGAGCACCACCGCAAAACGTCTGGGGCTGTCTGGGCAGTGCCTCCCACTGCC
 CAGGGGGACCAGGTGCCACTGAAGGTGCTGCTGCCCGGCACAG

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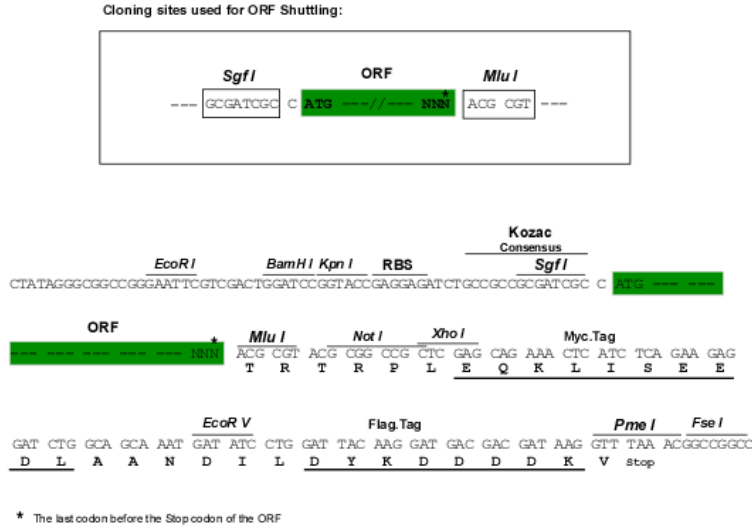
Protein Sequence: >RR204537 representing NM_001025680
 Red=Cloning site Green=Tags(s)

MDNSTGTWEGCHVDSRDHLFPPSLYIFVIGVGLPTNCLALWAAYRQVRQRNELGVYLMNLSIADLLYIC
 TLPLWVDYFLHHDNWIHGPGSCKLFGFIFYSNIYISIAFLCCISVDRYLAVAHPLRFARLRRVKTAVAVS
 SVVWATELGANSAPLFHDELFRDRYNHTFCFEKFPMERWVWAMNLYRVFVGFLFPWALMLLCYRGILRAV
 QSSVSTERQEKVKIKRLALSLIAIYLVCFAPYHALLLSRSAYVLRPWDCGFEERVFSAYHSSLAFTSLN
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 QGDQVPLKVLLPPAQ

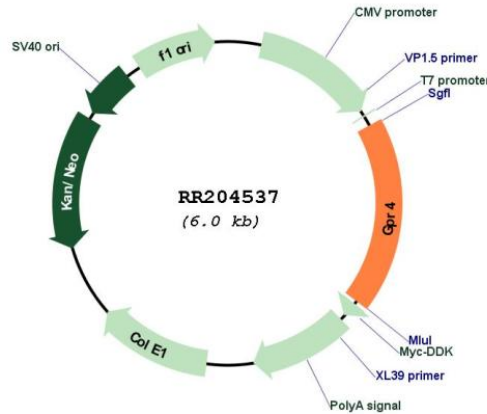
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025680

ORF Size:	1095 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:	<ol style="list-style-type: none">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_001025680.1 , NP_001020851.1
RefSeq Size:	1513 bp
RefSeq ORF:	1098 bp
Locus ID:	308408
UniProt ID:	Q4KLH9
Cytogenetics:	1q21
MW:	41.3 kDa
Gene Summary:	Proton-sensing receptor coupled to several G-proteins, including G(s), G(13) and G(q)/G(11) proteins, leading to cAMP production.[UniProtKB/Swiss-Prot Function]