

Product datasheet for **MR215978**

Gprc5c (NM_147217) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gprc5c (NM_147217) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gprc5c
Synonyms:	1110028I06Rik; 3200002M13Rik; Raig3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215978 representing NM_147217, **codon optimized**.
Due to the complexity of NM_147217, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACTCACAGAACCTTGCTGATGTGCTAGGACTGCCTCTTCTTCCCAGGAGCCTTGGCCAGA
 ATCATGCCCCACCTGGTTGCAGCCAGATCTGGATCCCCTCTACTACAACCTCTGTGACCCTCGGGGGC
 CTGGGCATTGTCTTGGAGGCAGTGGCTGGAGCAGGCATCATCAGACATTTGTGTTAACCATCATCCTT
 GTGGCTAGCCTTCCATTTGTGCAGGACACTAAGAAGCGGAGCCTCTTGGGAGCCAGGTGTTCTTCTG
 TGGGCACCTGGGTCTCTTCTGCCTCGTGTGGCTGTGTGGTGAAGCCGGACTTCTACTCTGTGCCTC
 TCGACGCTTCTCTTTGGGGTCTGTTTGCATCTGCTTCTCCTGTCTGGTAGCTCACGTCTTTCCTC
 AACTTCTAACCCGGAAGAACCATGGGCCCCGAGGCTGGGTGATCTTACCGTGGCGCTGCTGCTCACCC
 TTGTGGAGGTCATCATTAAACCCGAGTGGCTTATCATCACCTGGTACGGGGAGGTGGCCAGGTTAGCCC
 CCTGGGCAATGTCAGTCCGACTCGACCATGACCTCTCCGTGTGCCATCGCCAACATGGACTTTGTCATG
 GCTCTCATCTACGTAATGCTGTTGCTGCTGACGGCCTTCTAGGAGCCTGGCCACCTTGTGTGGCCGCT
 TCAAGCGCTGGCGAAACACGGGGTCTTTGTGTGCTCACCCTGTCATCTCCATCGCCATCTGGGTGGT
 ATGGATTGTCATGTACACCTACGCAACAGCAGCACCATAGCCCCACCTGGGATGACCCACGTTGGCC
 ATTGCCCTCGCTGCCAATGCCTGGACCTTTGTCTCTTCTATGTATCCCTGAGGTCTCACAGGTGACCA
 AACCTAGCCCAGAACAGAGCTACCAGGGGGACATGTACCCGACCCGAGGGGTGGGCTATGAGACCATCT
 GAAGGAGCAGACGGGCCAGAGCATGTTTGTGGAGAACAAGGCATTTTCTATGGACGAACCAGCCTCAGCA
 AAGAGACCAGTGTACCTTACAGTGGCTACAATGGACAGCTGCTGACCAGCGTGTACCAGCCACCAGAGA
 TGGCCCTGATGCACAAAGGCCCTGTAAGGTGCATACGACGTCATCTCCACGGGCCACCGCCAACAG
 CCAGGTGATGGGCAGTGCCAACTCAACCCTGCGGGCCGAAGACATGTACATGGTCCAGAGCCACCAGGTG
 GCCACGCCACAAAGACGGCAAGATCTCTCAGGTCTTTAGAAATCCCTACGTGTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215978 representing NM_147217
 Red=Cloning site Green=Tags(s)

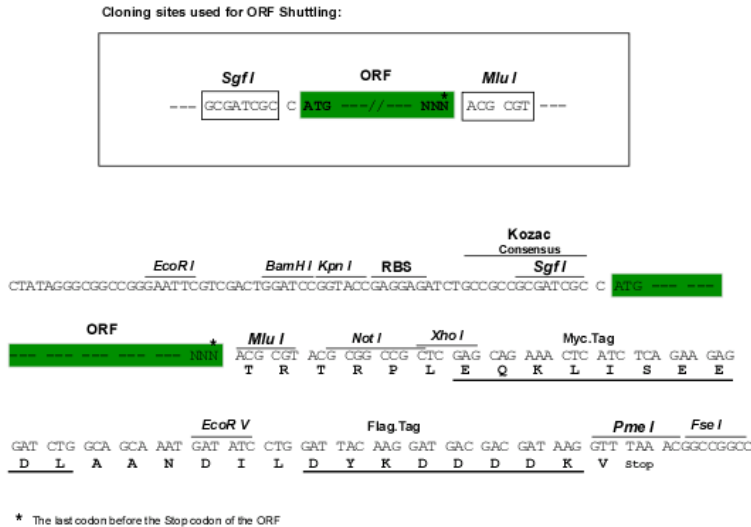
MATHRLLMCLGLPLFFPGALAQNHAPPGCSPDLPLYLNLCDRSGAWGIVLEAVAGAGIITTFVLTIIIL
 VASLPFVQDTKKRSLTGTQVFFLLGLFCLVFACVVKPDFSTCASRRFLFGVLFALCFSLVAHVLSL
 NFLTRKNHGRGWVIFTVALLLTLVEVIINTEWLIITLVRGGQVSPGNSADSTMTSPCAIANMDFVM
 ALIYVMLLLTAFLLGAWPTLCGRFWRKHGVFVLLTTVISIAIWWVWVIMTYGNEQHSPTWDDPTLA
 IALAANAWTFVLFYVIPEVSQVTKPSPEQSYQGDMYPTRGVGYETILKEQTQSMFVENKAFSMDEPASA
 KRPVSPYSGYNGQLLTSVYQPTMALMHKGPSEGAYDVLPRATANSQVMGSANSTLRAEDMYMVQSHQV
 ATPPKDGKISQVFRNPYVWD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_147217

ORF Size: 1320 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_147217.3](#), [NP_671750.2](#)

RefSeq Size: 2037 bp

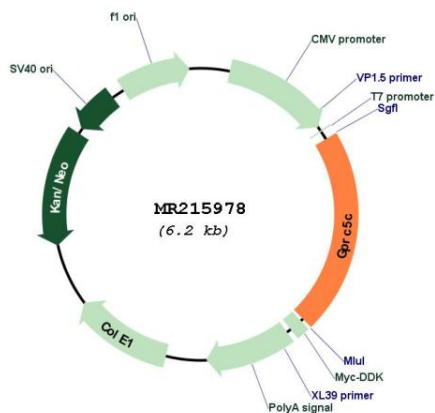
RefSeq ORF: 1323 bp

Locus ID: 70355

UniProt ID: [Q8K3J9](#)

Cytogenetics: 11 E2
MW: 48.4 kDa
Gene Summary: This retinoic acid-inducible G-protein coupled receptor provide evidence for a possible interaction between retinoid and G-protein signaling pathways.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215978