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Product datasheet for SC309807

GPCR TGR7 (MRGPRD) (NM_198923) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPCR TGR7 (MRGPRD) (NM_198923) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPCR TGR7
Synonyms:	MRGD; TGR7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_198923 edited
GGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGGCTTAAGGCATGAACCAGACTTTG
AATAGCAGTGGGACCGTGGAGTCAGCCCTAAACTATTCCAGAGGGAGCACAGTGCACACG
GCCTACCTGGTGCTGAGCTCCCTGGCCATGTTCACCTGCCTGTGCGGGATGGCAGGCAAC
AGCATGGTGATCTGGCTGCTGGGCTTTCGAATGCACAGGAACCCCTTCTGCATCTATATC
CTCAACCTGGCGGCAGCCGACCTCCTCTTCCTCTTCAGCATGGCTTCCACGCTCAGCCTG
GAAACCCAGCCCCTGGTCAATACCACTGACAAGGTCCACGAGCTGATGAAGAGACTGATG
TACTTTGCCTACACAGTGGGCCTGAGCCTGCTGACGGCCATCAGCACCCAGCGCTGTCTC
TCTGTCCTCTTCCCTATCTGGTTCAAGTGTCACCGGCCCAGGCACCTGTCAGCCTGGGTG
TGTGGCCTGCTGTGGACGCTCTGTCTCCTGATGAACGGGTTGACCTCTTCCTTCTGCAGC
AAGTTCTTGAAATTCAATGAAGATCGGTGCTTCAGGGTGGACATGGTCCAGGCCGCCCTC
ATCATGGGGGTCTTAACCCCAGTGATGACTCTGTCCAGCCTGACCCTCTTTGTCTGGGTG
CGGAGGAGCTCCCAGCAGTGGCGGCGGCAGCCCACACGGCTGTTCGTGGTGGTCCTGGCC
TCTGTCCTGGTGTTCCTCATCTGTTCCCTGCCTCTGAGCATCTACTGGTTTGTGCTCTAC
TGGTTGAGCCTGCCGCCCGAGATGCAGGTCCTGTGCTTCAGCTTGTCACGCCTCTCCTCG
TCCGTAAGCAGCAGCGCCAACCCCGTCATCTACTTCCTGGTGGGCAGCCGGAGGAGCCAC
AGGCTGCCCACCAGGTCCCTGGGGACTGTGCTCCAACAGGCGCTTCGCGAGGAGCCCGAG
CTGGAAGGTGGGGAGACGCCCACCGTGGGCACCAATGAGATGGGGGCTTGAGAAAGCCGA
ATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCGATATCAAGCTTG
TCGACTCTAGATTGCGGCCGCGGTCATAGCTGTTTCCTGAACAGATCCCGGGTGGCATCC
CTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCCACCAG
CCTTGTCCTAATAAAATTAAATTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAATAT
TATGGGGTGG

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198923 unedited
TGGGGGCAACTGGATTTGTAAACGACATACTATAGGCGGCCGCCAGTGTGATGGATATCT
GCAGAATTCGGCTTAAGGCATGAACCAGACTTTGAATAGCAGTGGGACCGTGGAGTCAGC
CCTAAACTATTCCAGAGGGAGCACAGTGCACACGGCCTACCTGGTGCTGAGCTCCCTGGC
CATGTTCACCTGCCTGTGCGGGATGGCAGGCAACAGCATGGTGATCTGGCTGCTGGGCTT
TCGAATGCACAGGAACCCCTTCTGCATCTATATCCTCAACCTGGCGGCAGCCGACCTCCT
CTTCCTCTTCAGCATGGCTTCCACGCTCAGCCTGGAAACCCAGCCCCTGGTCAATACCAC
TGACAAGGTCCACGAGCTGATGAAGAGACTGATGTACTTTGCCTACACAGTGGGCCTGAG
CCTGCTGACGGCCATCAGCACCCAGCGCTGTCTCTCTGTCCTCTTCCCTATCTGGTTCAA
GTGTCACCGGCCCAGGCACCTGTCAGCCTGGGTGTGTGGCCTGCTGTGGACGCTCTGTCT
CCTGATGAACGGGTTGACCTCTTCCTTCTGCAGCAAGTTCTTGAAATTCAATGAAGATCG
GTGCTTCAGGGTGGACATGGTCCAGGCCGCCCTCATCATGGGGGTCTTAACCCCAGTGAT
GACTCTGTCCAGCCTGACCCTCTTTGTCTGGGTGCGGAGGAGCTCCCAGCAGTGGCGGCG
GCAGCCCACACGGCTGTTCGTGGTGGTCCTGGCCTCTGTCCTGGTGTTCCTCATCTGTTC
CCTGCCTCTGAGCATCTACTGGTTTGTGCTCTACTGGTTGAGCCTGCCGCCCGAGATGCA
NGTCCTGTGCTTCAGCTTGTCACGCCTCTCCTCGTCCGTAAGCAGCAGCGCCAACC

3' Read Nucleotide Sequence:

>Forward primer walk for NM_198923 unedited
GAACTAGGGGTCTAACCCATGAGACTTGTCCAGCCGNCCCTCTTTGTCTGGGTGCGGAGG
AGCTCCCAGCAGTGGCGGCGGCAGCCCACACGGCTGTTCGTGGTGGTCCTGGCCTCTGTC
CTGGTGTTCCTCATCTGTTCCCTGCCTCTGAGCATCTACTGGTTTGTGCTCTACTGGTTG
AGCCTGCCGCCCGAGATGCAGGTCCTGTGCTTCAGCTTGTCACGCCTCTCCTCGTCCGTA
AGCAGCAGCGCCAACCCCGTCATCTACTTCCTGGTGGGCAGNCNGAGGAGCCACAGGCTG
CCCACCAGGTCCCTGGGGACTGNGCTCCAACAGGCGCTTCGCGAGGAGCCCGAGCTGGAA
GGTGGGGAGACGCCCACCGTGGGCACCAATGAGATGGGGGCTTGAGAAAGCCGAATTCCA
GCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCGATATCAAGCTTGTCGACT
CTAGATTGCGGCCGCGGTCATAGCTGTTTCCTGAACAGATCCCGGGTGGCATCCCTGTGA
CCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCCACCAGCCCTGT
CCTAATAAAATTAAATTGCATCATTTTGTCTGACTAAGTGTCCTTCTATAATATTATTGN
GTTGGAAGGGGGATGNTTNNAATNNAACNCAAATAANAAAACATAAAAAANNNNAACAAN
AAAAAAAATNAAACNNNNCNNTNNNNNAAAATNAAACATAANNNNAAAANNNAAAANCAT
AATAACAAANNAAAANAATAAAAAANAAACANCNAAANTAAAAANNAAAAAAAAAANACA
NAAAAAAAAAAAATATAATAATATAAAAATTTANAAAANTNANGAAAAATTTGAAGAGAA
GG

Restriction Sites: Please inquire

ACCN: NM_198923

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This construct is a cloned PCR fragment that was fully sequenced. There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF, however, this results in the substitution of no amino acids.

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_198923.2, NP_944605.2
RefSeq Size:	966 bp
RefSeq ORF:	966 bp
Locus ID:	116512
UniProt ID:	Q8TDS7
Cytogenetics:	11q13.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	May regulate nociceptor function and/or development, including the sensation or modulation of pain. Functions as a specific membrane receptor for beta-alanine. Beta-alanine at micromolar doses specifically evoked Ca(2+) influx in cells expressing the receptor. Beta-alanine decreases forskolin-stimulated cAMP production in cells expressing the receptor, suggesting that the receptor couples with G-protein G(q) and G(i).[UniProtKB/Swiss-Prot Function]