

Product datasheet for **RG214433**

GPR158 (NM_020752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR158 (NM_020752) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR158
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214433 representing NM_020752 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCCATGGCTTACCCCTTACTCCTCTGCCTCCTGCTTGTCTCAGCTGGGATTGGGAGCTGTTGGCG
CCAGCCGCGACCCCAAGGACGGCCGGATTCCCCTCGAGAGAGGACCCCAAGGGGAAGCCGCACGCCCA
GCAGCCGGGTGAGCCTCTGCCTCGGACTCCTCGGCTCCCTGGAGCCGCTCCACCGATGGACCATCTTG
GCGCAGAACTCGCCGAGGAGGTGCCATGGACGTGGCCTTTACCTCTACACCGGGGACTCCCACGAGC
TGAAGCGAGCCAAGTCTCCGGCCGCTACGAGTTGGCGGGCTGCCGGGAAGTGGCCAGCCCTGGCCAG
CGCGCACCCCTCCTTGCACCGGGCGCTGGACACTGACACACGCGCACTCACTCAACGTGATGCTG
CAGAGCAATAAGTCGCGGAGCAGAAGTTGACAGGACGACCTGGATTGGTACCAGGCGCTGGTGTGGAGCC
TTCTGGAGGGCGAGCCAGCATCTCCCGGGCGCCATCACCTTCAGCACCGATTGCTGTCCGACCCGGC
CCCACAGGTCTTCTCCAGGCCACGCGGAGGAGAGCCGCATCTGCTCCAAGACCTGCTCCTCCGCA
CCCCACTGGCCAACGCCACTCTGGAGACCGAGTGGTTCCACGGCCTCCGGCGCAAGTGGAGGCCCACT
TACACCGCCGCGCCCAATCAGGGGCCCGGGCCTGGCCACAGCTGGCGGCGCAAGGACGGGCTCGG
CGGGACAAGAGCCACTCAAGTGTCTCCGCCTATCTGGAGTGCAGAACGGGAGTTACAAGCCCGG
TGGCTGGTACTCTTCTCTGCCATCTACGGTTGCAGCCTAACCTGGTCCCGAATTCAGGGGTGTCA
TGAAAGTTGACATAAATCTTCAGAAAGTGGACATTGACCAATGCTCAAGTATGATGGCTGGTTTCAGGAAC
TCATAAATGCCACCTCAACAATTCAGAGTGTATGCCAATTAAGGCCCTAGGATTCGTTCTTGGAGCCTAT
GAGTGCATTTGCAAAGCAGGATTCTATCATCTGGAGTCTTACCAGTGAACAACCTTTCGGAGAAGGGGTC
CGGATCAGCATATTTAGGAAGTACAAAAGATGTGTCAGAAGAAGCCTATGTCTGCCTACCTTGCAGGGA
GGGCTGCCCTTCTGTGCTGATGACAGCCATGCTTCGTCAGGAAGATAAGTATTTACGACTTGCATC
ATCTCCTTCCAAGCCCTGTGATGCTGCTGACTTCGTTAGCATGCTGGTGGTCTACCACCTTTCGAAAG
CAAAGAGCATCCGGGCATCGGGCCTTACTCTGTGGAAACGATCCTTTTGGATCTCTGCCTATACTT
TCCAGTTGTTATTTTGTACTTTGAGCCAAGCACATTTTCGCTGTATTCTCCTAAGATGGGCTCGCTTCTC
GGTTTGTACTGTTTACGGAAGTGTCACTCTCAAACCTCACAGGTTTTGAAGGTTTTCTTTACAGAA
CGGCTCAACGAATTCATATATGACTGGCGGACGGGTCATGAGGATGCTGGCAGTAATACTCTTGGTAGT



[View online »](#)

GTTTTGGTTTCTCATTGGCTGGACTTCATCTGTGTGCCAGAATTTGGAGAAACAGATTTCACTTATTGGC
CAGGGGAAAACATCCGATCACCTCATCTTCAATATGTGCCTCATTGACCGCTGGGACTACATGACAGCAG
TTGCTGAATTTTTATTCTCTTTGTGGGTGTTTATCTCTGCTATGCAGTGCAGCAGTCCCATCGGCATT
CCATGAGCCCCGTATATGGCTGTTGCAGTTACAATGAGCTCATCATCTCTGCTATATTCCATACAATT
AGATTTGTTCTTGCCTCAAGACTTCAGTCTGATTGGATGTTGATGCTGTATTTTGACATACTCATTTGA
CTGTGACAGTACCATTGGGTTGCTTTTGATTCCAAAGTTTTACATTCAAGCAATAACCCACGAGATGA
TATTGCTACAGAAGCATATGAGGATGAGCTAGACATGGGCCGATCTGGATCCTACCTGAACAGCAGTATC
AATTGAGCCTGGAGTGAGCACAGCTTGGATCCAGAGGACATTCCGGACGAGCTGAAAAAACTCTATGCC
AACTGGAATATATAAAAGAAAGAGATGATCACAACAACCCACCTCCAGAAAAAGCGGTGCTCGAA
GAAGGGCTAGGTCGTTCCATCATGAGACGCATTACGGAGATCCCAGAGACAGTCAAGCCGAGTCTCT
AAAGAGGACAAGGAGGGCGCCGACCATGGCACAGCCAAAGGCACTGCCCTCATCAGGAAGAACCCCCAG
AGTCTTCAGGGAACACAGGAAAATCCAAGGAGGAGACCCTGAAAAACCGAGTCTTCTCACTCAAGAAATC
CCACAGCACTTATGACCACGTGAGAGACCAACGGAAGAGTCCAGTAGCCTACCCACAGAAAGCCAAGAG
GAGGAGACAACAGAAAATCCACACTGGAATCCCTGTCCGGTAAAAAACTAACACAAAACTAAAAGAAG
ACAGCGAGGCTGAGTCCACGGAGTCCGTGCCGTTGGTGTGCAAGTCAAGCAAGCGCTCACAACTCAGCTC
AGAGAAGAAAACCTGGGCACCCACGAACATCGATGTTACAGAAGTCTCTCAGTGTATAGCAAGCGCCAAG
GAGAAGACTCTTGGATTAGCTGGGAAAACCCAAACAGCAGGTGTGGAAGAACGCACTAAATCCCAGAAAC
CTTTGCCAAAAGATAAAGAGACAAAACAGAAATCACTCAAATTTCTGATAACACAGAGACTAAAGATCCTGC
CCCCAAAACCTCAAATCCTGCGGAGGAGCCAAGAAAGCCTCAGAAATCTGGGATTATGAAACAACAAGG
GTCAACCCCACTGCCAATTTGACCTGAACCCAGGCACCACCAGATGAAGGACAACCTTTGACATTG
GGGAGGTGTGCTTGGGAGTTTATGACCTGACCCCTGGTCTGTGCCTCAGAATCAAAGTTCAAAA
GCACGTATCTATTGTGGCTTCTGAAATGGAGAAAAACCCACTTTTTCTTAAAGGAGAAATCTCACCAC
AAGCCTAAGGCAGCTGAGGTTTGTGAGCAATCCAATCAGAAGCGCATAGATAAGGCTGAAGTATGCCTTT
GGGAGAGCCAAGGCCAGTCCATTTTGGAAAGATGAGAAGCTTTTGATTTCCAAGACTCCAGTCTCCAGAG
GAGGGCAAAGAGGAGAACGGAGGTGAGCCTCGTGCAGCCAATGTGTGCTGGGCAGAGCGAAGAACTG
CCCCCAAAGCTGTAGCATCAAAAACAGAGAATGAAAATCTCAACCAAATAGGACACCAGGAAAAAAGA
CATCTTCTTCTGAGGAGAATGTGCGTGGCTCCTATAACTCAAGTAATAACTTCCAGCAACCTTTAACATC
ACGAGCAGAGGTTTGTCTTGGGAGTTTGGAGCCAGCTCAACCAAATGCTGGAAGAAGTGTAGCTTTA
CCTGCCTCTTCTGCTCTAAGTCAAATAAGATAGCAGGGCCTAGGAAAGAAGAGATCTGGGATAGTTTTA
AAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214433 representing NM_020752
 Red=Cloning site Green=Tags(s)

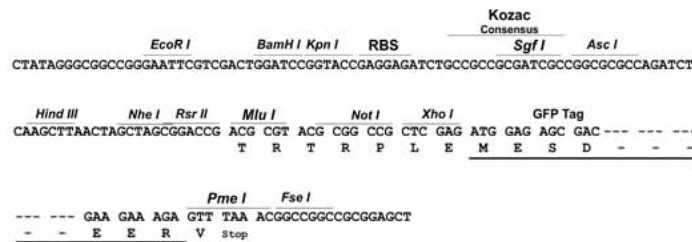
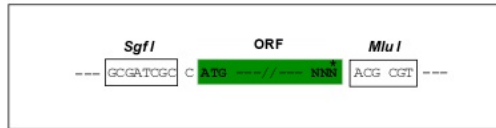
MGAMAYPLLLCLLLAQLGLGAVGASRDPQGRPDSPRERTPKGKPHAQQPGRASASDSSAPWSRSTDGTIL
 AQKLAEEVPM DVASYLYTGD SHQLKRANCSGRYELAGLP GKWPALASAHPSLHRALDTL THATNFLNVM L
 QSNKSREQNLQDDLDWYQALVWSLLEGEPSISR AAITFSTDSL SAPAPQVFLQATREESRILLQDLSSSA
 PHLANATLETEWFHGLRRKWRPHLHRRGPNQGRGLGHSWRRKDGLGGDKSHFKWSPPYLECENGSYKPG
 WLVTLSAIYGLQPNLVPEFRGMKV D INLQKVDIDQCSSDGFSGTHKCHLNNSECMPIKGLGFVLGAY
 ECICKAGFYHPGVLPVNNFRRRGPDQHISGSTKDVSEEAYVCLPCREGCPFCADDSPCFVQEDKYLR LAI
 ISFQALCMLLDFVSM LVVYHFRKAKSIRASGLILLETILFGSLLL YFPVVILYFEPSTFR CILLRWARLL
 GFATVYGTVT LKLRV LKVFLSRTAQRIPYMTGGRVMRMLAVILLVFWFLIGWTSSVCQNL EKQISLIG
 QGKTS D H L I F N M C L I D R W D Y M T A V A E F L L W G V Y L C Y A V R T V P S A F H E P R Y M A V A V H N E L I I S A I F H T I
 R F V L A S R L Q S D W M L M L Y F A H T L T V T V T I G L L L I P K F S H S N N P R D D I A T E A Y E D E L D M G R S G S Y L N S S I
 N S A W S E H S L D P E D I R D E L K K L Y A Q L E I Y K R K K M I T N N P H L Q K K R C S K K G L G R S I M R R I T E I P E T V S R Q C S
 K E D K E G A D H G T A K G T A L I R K N P P E S S G N T G K S K E E T L K N R V F S L K K S H S T Y D H V R D Q T E E S S L P T E S Q E
 E E T T E N S T L E S L S G K K L T Q K L K E D S E A E S T E S V P L V C K S A S A H N L S S E K K T G H P R T S M L Q K S L S V I A S A K
 E K T L G L A G K T Q T A G V E E R T K S Q K P L P K D K E T N R N H S N S D N T E T K D P A P Q N S N P A E E P R K P Q K S G I M K Q Q R
 V N P T T A N S D L N P G T T Q M K D N F D I G E V C P W E V Y D L T P G P V P S E S K V Q K H V S I V A S E M E K N P T F S L K E K S H H
 K P K A A E V C Q Q S N Q K R I D K A E V C L W E S Q G Q S I L E D E K L L I S K T P V L P E R A K E E N G G Q P R A A N V C A G Q S E E L
 P P K A V A S K T E N E N L N Q I G H Q E K K T S S E E N V R G S Y N S S N N F Q Q P L T S R A E V C P W E F E T P A Q P N A G R S V A L
 P A S S A L S A N K I A G P R K E E I W D S F K V

TRTRPLE - GFP Tag - V

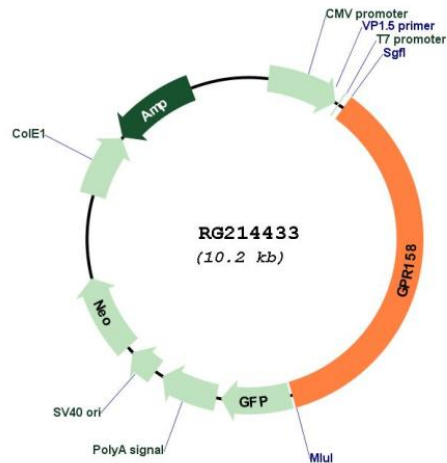
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_020752

ORF Size: 3645 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_020752.3](#)

RefSeq Size: 6663 bp

RefSeq ORF: 3648 bp

Locus ID: 57512

UniProt ID: [Q5T848](#)

Cytogenetics: 10p12.1

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Orphan receptor.[UniProtKB/Swiss-Prot Function]