

Product datasheet for **MG219836**

Grxcr2 (NM_001033426) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grxcr2 (NM_001033426) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Grxcr2
Synonyms: Gm851
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219836 representing NM_001033426
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACTCCGAGAAGAACTGAATCAGAAGAGCGACGACAAACCCAGAAAAGTCCGGTTTAAAATCT
CCTCTTCTACAGTGGCCGAGTGTGAAGCAGTTTTTTGAGGATGGCAAGAATTAGAGTCGCCCAAAGA
AGAATATCCTCACAGTTTTCTCCAGGAGGCCCTTGAACCAATGGATGGCGTTTATGGGTCTGGGGAAGTC
CCCAAGCCCCAGCCGTAATCCCAAGCTGACTGCTCAGAGAATCAGCGTATTCAGAGACAGCGGCCCT
ACACTCTGGCGGGCAGCCAGCCTCTGTTCATGACTACAAGGCGAATGACCATAAGCCTCCACCCATTAT
AGACTTTGGGAAGATAATTATCTATACCAACAACCTGAAAATCATCAGAACCCCGATGGACAAAAGGGAC
TTCATGAGGAAAATCCTCCAAAAGGAAGATGTGGCTGAGGAAGCGTCCCTGATGATCACAGGGGAGAATG
ATGGAGACAGGGAGCAAGGCTGCCCCCTGCCGGAGCGGAACGGCAGCCCCCTGCCGGAGTCGGAGCGCAC
ATTTCTTCATAGTCAGCACACAGGATGGGTTGGTCCCTGAGGACTGCCTCCACTGCCAGGGGTCTGGC
ATTGCCACCTGTTCTCTGTGCCACGGCAGCAAGTTCTCCATGCTGGCTAACAGATTCAAGGAGTCTACC
GAGCCCTCAGGTGCCCTGCCTGCAACGAGAATGGCCTGCAACCTTGCCGAATTTGCAGCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219836 representing NM_001033426
Red=Cloning site Green=Tags(s)

MEDSEKLNQKSDDKPRKVRFKISSYSGRVLKQVFEDGQELESPKEEYPHSFLQEALPMDGVYGSGEV
 PKPQPYSPLKTAQRISVFRDSGAYTLAQSPLFNDYKANDHKPPPDIIDFGKIIIIYTNLKIIRTPMDKRD
 FMRKILQKEDVAEEASLMITGENDGDREQGCLPERNGSPLPESERTFLHSQHTQDGLVPEDCLHCQGS
 IATCSLCHGSKFMSLANRFKESYRALRCPACNENGLQPCRICSP

TRTRPLE - GFP Tag - V

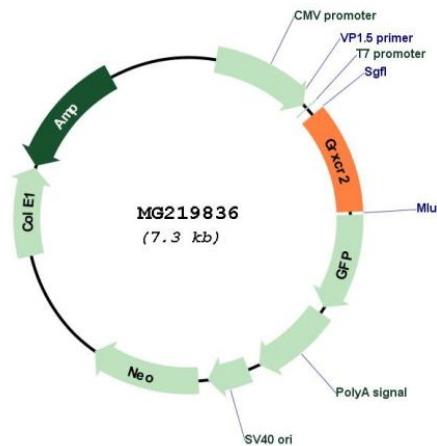
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001033426

ORF Size: 762 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_001033426.2 , NP_001028598.1
RefSeq Size:	1120 bp
RefSeq ORF:	765 bp
Locus ID:	332309
UniProt ID:	Q3TYR5
Cytogenetics:	18 B3
Gene Summary:	Could play a role in maintaining cochlear stereocilia bundles that are involved in sound detection.[UniProtKB/Swiss-Prot Function]