

Product datasheet for **RG223914**

CALHM5 (NM_153711) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CALHM5
Synonyms:	C6orf188; dJ493F7.3; FAM26E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223914 representing NM_153711
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGATGCTTTTCAGGGCATTCTTAAATCTTCCTTAATCAGAAAAGTGTATTGGCTACAGCTTCATGG
CTCTGCTGACCGTGGGAAGTGAGCGTCTCTTTCTGTTGTGGCTTTTAAGTGCCCTGCAGCACTGAGAA
TATGACCTATGGGCTGTTTCTCTCTTCTGCTCCTGGGTGTTACTGATCCTGGGATTCTTCTGAAC
AATAGGTCGTGGAGACTCTTCACAGGCTGCTGTGTAATCCAGGAAAACTTTCCAGAGGCCACAGCT
GCCGTTTCTCTACGTCCTCGGCCAGATCACTCTGAGCTCATTGGTGGCTCCAGTGATGTGGCTTTCTGT
GGCTCTGCTCAATGGAATTTCTATGAATGTGCCATGAGCGGGACGAGAAGTTCAGGACTCCTGGAAGT
ATTTGCAAGGGTAAGCCAAAGAGTGCTGGGAAGAATTACAAAGTATCTTGTGGCAAACTAGCATGC
TACCTACCGTCAATGAAGAAGTGAAGTCTCCCTTCAGGCCAGTCTCAGATTCTAGGATGGTGCCTGAT
TTGTTGAGCGTCTTCTCTCTCTGCTCACCACATGTTATGCTCGCTGCCGATCTAAAGTTAGCTACCTT
CAGCTGAGTTTTTGAAGACATATGCACAAAAGGAGAAGGAGCAGTTGAAAAATACATTTCTGGACTATG
CCAACAAGCTGAGCGAGAGGAACCTGAAATGTTTTTTGAAAACAAGAGGCCAGATCCTTTTCCCATGCC
TACGTTTGTGCTGGGAGGCTGCTTCAGAGCTGCATTCTTCCACCAAGCCAGCAACACTATAGCACC
CTCCACAGAGTGGTGGACAATGGTCTGCAACTTAGCCCTGAGGATGATGAGACGACAATGGTCTTGTGG
GTAAGTCCCAATATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG223914 representing NM_153711

Red=Cloning site Green=Tags(s)

MDAFQGIKFFLNQKTVIGYSFMALLTVGSERLFVVAFKPCSTENMTYGLVFLFAPAWVLLILGFFLN
NRSWRLFTGCCVNPRKIFPRGHSCRFYVLGQITLSSLVAPVMWLSVALLNGTFYECAMSGTRSSGLLEL
ICKGKPKCEWELHKVSCGKTSMLPTVNEELKLSLQAQSQILGWCLICSASFFSLLTTCYARCRSKVSYL
QLSFWKTYAQKEQLENTFLDYANKLSERNLKCFENKRPDPFPMPTFAAWEAASELHSFHQSQQHYST
LHRVVDNGLQLSPEDDETTMVLVGTAHNM

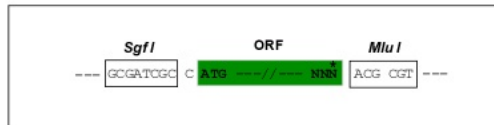
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN:

NM_153711

ORF Size:

927 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153711.5](#)

RefSeq Size: 1777 bp

RefSeq ORF: 930 bp

Locus ID: 254228

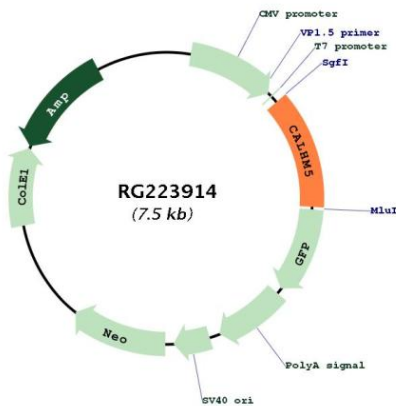
UniProt ID: [Q8N5C1](#)

Cytogenetics: 6q22.1

Protein Families: Transmembrane

Gene Summary: Pore-forming subunit of a voltage-gated ion channel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223914