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Product datasheet for RG236886

CHRNA10 (NM_001303034) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA10 (NM_001303034) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRNA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG236886 representing NM_001303034.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGGCGCGGCGGCGCGTGCTCACCTACGGCTGCTGCTCCGAGCCCTACCCCGACGTCACCTTCACG
CTGCTGCTGCGCCGCCGCGCCGCCGCCTACGTGTGCAACCTGCTGCTGCCCTGCGTGCTCATCTCGCTG
CTTGCGCCGCTCGCCTTCCACCTGCCTGCCGACTCAGGCGAGAAGGTGTCGCTGGGCGTCACCGTGCTG
CTGGCGCTCACCGTCTTCCAGTTGCTGCTGGCCGAGAGCATGCCACCGGCCGAGAGCGTGCCGCTCATC
GGGAAGTACTACATGGCCACTATGACCATGGTCACATTCTCAACAGCACTCACCATCCTTATCATGAAC
CTGCATTACTGTGGTCCCAGTGTCCGCCCAGTGCCAGCCTGGGCTAGGGCCCTCCTGCTGGGACACCTG
GCACGGGGCCTGTGCGTGCGGGAAAGAGGGGAGCCCTGTGGGCAGTCCAGGCCACCTGAGTTATCTCCT
AGCCCCCAGTCGCCTGAAGGAGGGGCTGGCCCCCCAGCGGGCCCTTGCCACGAGCCACGATGTCTGTGC
CGCCAGGAAGCCCTACTGCACCACGTAGCCACCATTGCCAATACCTTCCGCAGCCACCGAGCTGCCCAG
CGCTGCCATGAGGACTGGAAGCGCCTGGCCCGTGTGATGGACCGCTTCTTCCTGGCCATCTTCTTCTCC
ATGGCCCTGGTCATGAGCCTCCTGGTGCTGGTGCAGGCCCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG236886
Blue=ORF Red=Cloning site Green=Tag(s)

MPARRRVLTYGCCSEPYPDVTFTLLLRRRAAAYVCNLLLPCVLISLLAPLAFHLPADSGEKVSLGVTVL
LALTVFQLLLAESMPPAESVPLIGKYYMATMTMVTFSTALTILIMNLHYCGPSVRPVPAWARALLLGHL
ARGLCVRERGEPCGQSRPPELSPSPQSPEGGAGPPAGPCHEPRCLCRQEALLHHVATIANTFRSHRAAQ
RCHEDWKRLARVMDRFFLAIFFSMALVMSLLVLVQAL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

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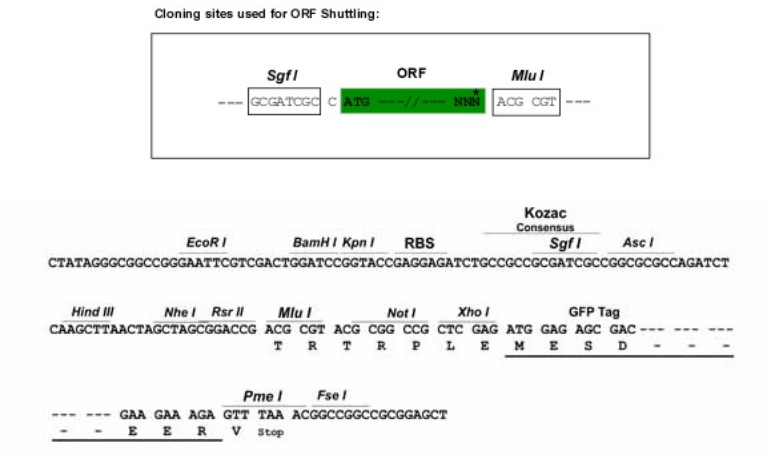
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001303034

ORF Size: 732 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).

RefSeq: NM_001303034.1, NP_001289963.1

RefSeq Size: 2024 bp

RefSeq ORF: 735 bp

Locus ID: 57053

UniProt ID: Q9GZZ6

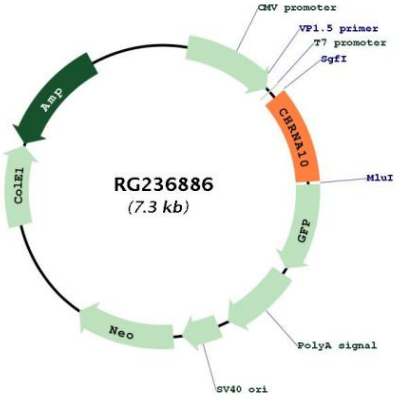
Cytogenetics: 11p15.4

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

MW: 27.2 kDa

Gene Summary: Ionotropic receptor with a probable role in the modulation of auditory stimuli. Agonist binding may induce an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The channel is permeable to a range of divalent cations including calcium, the influx of which may activate a potassium current which hyperpolarizes the cell membrane. In the ear, this may lead to a reduction in basilar membrane motion, altering the activity of auditory nerve fibers and reducing the range of dynamic hearing. This may protect against acoustic trauma. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG236886