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Product datasheet for SC332422

Nicotinic Acetylcholine Receptor alpha 4 (CHRNA4) (NM_001256573) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nicotinic Acetylcholine Receptor alpha 4 (CHRNA4) (NM_001256573) Human Untagged Clone

Tag: Tag Free

Symbol: Nicotinic Acetylcholine Receptor alpha 4

Synonyms: BFNC; EBN; EBN1; NACHR; NACHRA4; NACRA4

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC332422 representing NM_001256573.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAAATTCGGCTCCTGGACCTACGACAAGGCCAAGATCGACCTGGTGAACATGCACAGCCGCGTGGAC
CAGCTGGACTTCTGGGAGAGTGGCGAGTGGGTCATCGTGGATGCCGTGGGCACCTACAACACCAGGAAG
TACGAGTGCTGTGCCGAGATCTACCCGGACATCACCTATGCCTTCGTCATCCGGCGGCTGCCGCTCTTC
TACACCATCAACCTCATCATCCCCTGCCTGCTCATCTCCTGCCTCACCGTGCTGGTCTTCTACCTGCCC
TCCGAGTGTGGCGAGAAGATCACGCTGTGCATCTCCGTGCTGCTGTCGCTCACCGTCTTCCTGCTGCTC
ATCACCGAGATCATCCCGTCCACCTCACTGGTCATCCCACTCATCGGCGAGTACCTGCTGTTCACCATG
ATCTTCGTCACCCTGTCCATCGTCATCACGGTCTTCGTGCTCAACGTGCACCACCGCTCGCCACGCACG
CACACCATGCCCACCTGGGTACGCAGGGTCTTCCTGGACATCGTGCCACGCCTGCTCCTCATGAAGCGG
CCGTCCGTGGTCAAGGACAATTGCCGGCGGCTCATCGAGTCCATGCATAAGATGGCCAGTGCCCCGCGC
TTCTGGCCCGAGCCAGAAGGGGAGCCCCCTGCCACGAGCGGCACCCAGAGCCTGCACCCGCCCTCACCG
TCCTTCTGTGTCCCCCTGGATGTGCCGGCTGAGCCTGGGCCTTCCTGCAAGTCACCCTCCGACCAGCTC
CCTCCTCAGCAGCCCCTGGAAGCTGAGAAAGCCAGCCCCCACCCCTCGCCTGGACCCTGCCGCCCGCCC
CACGGCACCCAGGCACCAGGGCTGGCCAAAGCCAGGTCCCTCAGCGTCCAGCACATGTCCAGCCCTGGC
GAAGCGGTGGAAGGCGGCGTCCGGTGCCGGTCTCGGAGCATCCAGTACTGTGTTCCCCGAGACGATGCC
GCCCCCGAGGCAGATGGCCAGGCTGCCGGCGCCCTGGCCTCTCGCAACACCCACTCGGCTGAGCTCCCA
CCCCCAGACCAGCCCTCTCCGTGCAAATGCACATGCAAGAAGGAGCCCTCTTCGGTGTCCCCGAGCGCC
ACGGTCAAGACCCGCAGCACCAAAGCGCCGCCCCCGCACCTGCCCCTGTCGCCGGCCCTGACCCGGGCG
GTGGAGGGCGTCCAGTACATTGCAGACCACCTGAAGGCCGAAGACACAGACTTCTCGGTGAAGGAGGAC
TGGAAGTACGTGGCCATGGTCATCGACCGCATCTTCCTCTGGATGTTCATCATCGTCTGCCTGCTGGGG
ACGGTGGGCCTCTTCCTGCCGCCCTGGCTGGCTGGCATGATCTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001256573

Insert Size: 1356 bp

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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).
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_001256573.1
RefSeq Size:	5474 bp
RefSeq ORF:	1356 bp
Locus ID:	1137
UniProt ID:	P43681
Cytogenetics:	20q13.33
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
MW:	49.9 kDa
Gene Summary:	This gene encodes a nicotinic acetylcholine receptor, which belongs to a superfamily of ligand-gated ion channels that play a role in fast signal transmission at synapses. These pentameric receptors can bind acetylcholine, which causes an extensive change in conformation that leads to the opening of an ion-conducting channel across the plasma membrane. This protein is an integral membrane receptor subunit that can interact with either nAChR beta-2 or nAChR beta-4 to form a functional receptor. Mutations in this gene cause nocturnal frontal lobe epilepsy type 1. Polymorphisms in this gene that provide protection against nicotine addiction have been described. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012] Transcript Variant: This variant (2) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.