

Product datasheet for **TP320994**

CHRNA2 (NM_000742) Human Recombinant Protein

Product data:

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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human cholinergic receptor, nicotinic, alpha 2 (neuronal) (CHRNA2), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC220994 representing NM_000742 Red =Cloning site Green =Tags(s) |

MGPSCPVFLSFTKLSLWLLLLIPAGGEEAKRPPPRAPGDPLSSPSPTALPQGGSHTEDETDLRFKHLFRGY
NRWARPVPNTSDVVIVRFGLSIAQLIDVDEKNQMMTTNVWLKQEWSDYKLRWNPADFGNITSLRVPSEMI
WIPDIVLYNNADGEFAVTHMTKAHLFSTGTVHWVPPAIYKSSCSIDVTFFPFQDQNCMKMFGSWTYDKAK
IDLEQMEQTVDLKDYWESGEWAIVNATGTYNSSKDYDCCAEIYPDVYAFVIRRLPLFYTINLIIPCLLIS
CLTVLVFYLPSDCGEEKITLCISVLLSLTVFLLITEIIPSTSLVIPLIGEYLLFTMIFVTLISIVITVFVL
NVHHRSPSTHTMPHWVRGALLGCVPRWLLMNRPPPPVELCHPLRLKLSPSYHWLESNVDAEEREVVVEEE
DRWACAGHVAPSVGTLCSHGHLHSGASGPKAEALLQEGELLLSPHMQKALEGVHYIADHLRSEDADSSVK
EDWKYVAMVIDRIFLWLFIVCFLGTIGLFLPPFLAGMI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 56.9 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000733](#)

Locus ID: 1135

UniProt ID: [Q15822](#)

RefSeq Size: 2664

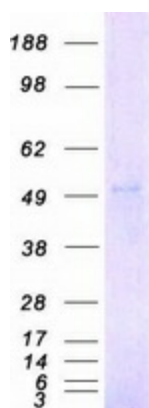
Cytogenetics: 8p21.2

RefSeq ORF: 1587

Summary: Nicotinic acetylcholine receptors (nAChRs) are ligand-gated ion channels formed by a pentameric arrangement of alpha and beta subunits to create distinct muscle and neuronal receptors. Neuronal receptors are found throughout the peripheral and central nervous system where they are involved in fast synaptic transmission. This gene encodes an alpha subunit that is widely expressed in the brain. The proposed structure for nAChR subunits is a conserved N-terminal extracellular domain followed by three conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. Mutations in this gene cause autosomal dominant nocturnal frontal lobe epilepsy type 4. Single nucleotide polymorphisms (SNPs) in this gene have been associated with nicotine dependence. [provided by RefSeq, Nov 2009]

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

Product images:



Coomassie blue staining of purified CHRNA2 protein (Cat# TP320994). The protein was produced from HEK293T cells transfected with CHRNA2 cDNA clone (Cat# [RC220994]) using MegaTran 2.0 (Cat# [TT210002]).