

## Recombinant Human CHRNA3 Protein, GST-Tagged

**Cat. No.** CHRNA3-1280H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CHRNA3 full-length ORF (AAH06114.1, 1 a.a. - 489 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This locus encodes a member of the nicotinic acetylcholine receptor family of proteins. Members of this family of proteins form pentameric complexes comprised of both alpha and beta subunits. This locus encodes an alpha-type subunit, as it contains characteristic adjacent cysteine residues. The encoded protein is a ligand-gated ion channel that likely plays a role in neurotransmission. Polymorphisms in this gene have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009] |
| <b>Molecular Mass</b>   | 79.42 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | <p>           MSGGPLSLPLALSPPRLLLLLLLLSLLPVARASEAEHRLFERLFEDYNEIIRPVANVSDP<br/>           VIIHFEVSMSQLVKVDEVNQIMETNLWLKQIWNDYKLKWNPSDYGGAEFMRVPAQKI<br/>           WKPDIVLYNNAVGDFQVDDKTKALLKYTGVTWIPPAIFKSSCKIDVTYFPFDYQNCT<br/>           MKFGSWSYDKAKIDLVLIGSSMNLKDYWESGEWAIKAPGYKHDIKYNCCIEIYPDIT<br/>           YSLYIRRLPLFYTINLIIPCLLISFLTVLVIFYLPSCGKVTLCISVLLSLTVFLLVITETIPS<br/>           TSLVIPLIGEYLLFTMIFVTLIVITVFLNVHYRTPTTHTMPSWVKTVFLNLLPRVMFM         </p>                                                                                                                                                                     |

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TRPTSNEGNAQKPRPLYGAELSNLNCFSRAESKGCKEGYPCQDGMCGYCHHRIK  
ISNFSANLTRSSSESVDVLSLSALSPEIKEAIQSVKYIAENMKAQNEAKEEQKAQEI  
QQLKRKEKSTETSDQEPGL

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

CHRNA3 cholinergic receptor, nicotinic, alpha 3 (neuronal) [ Homo sapiens ]

**Official Symbol**

CHRNA3

**Synonyms**

CHRNA3; cholinergic receptor, nicotinic, alpha 3 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 3; neuronal acetylcholine receptor subunit alpha-3; acetylcholine receptor; nicotinic; alpha 3 (neuronal); neuronal nicotinic acetylcholine receptor, alpha3 subunit; LNCR2; PAOD2; NACHRA3; MGC104879;

**Gene ID**

1136

**mRNA Refseq**

NM\_000743

**Protein Refseq**

NP\_000734

**MIM**

118503

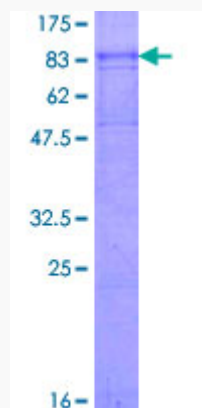
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**UniProt ID**

P32297

**Quality Control  
Testing**

12.5% SDS-PAGE Stained with Coomassie Blue.

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