

Product datasheet for **MG209587**

Chrna4 (NM_015730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna4 (NM_015730) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrna4
Synonyms:	Acra-4; Acra4; EBN1; ENFL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209587 representing NM_015730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGATCGGGGCTCCGGGGCCGCCGCCGCTGCTGCTCCTGCCGCTCCTGCTGCTCTTAGGGACCG
 GCCTTTGCTGCTAGCAGCCACATAGAGACCCGGGCCATGCGGAGGAGCGGCTCCTGAAGAGACTCTT
 CTCTGGCTACAACAAGTGGTCTCGGCCAGTAGCCAATATCTCAGATGTGGTCCTTGTCGGCTTTGGCTTG
 TCGATTGCTCAGCTCATTGATGTGGATGAGAAAAACCAGATGATGACGACCAACGTGTGGGTGAAGCAGG
 AGTGGCATGACTACAACTGCGCTGGGACCCTGGTACTACGAGAATGTACCTCCATCCGCATCCCATC
 TGAACTCATCTGGAGGCTGACATCGTCTCTACAACAACGCGGACGGGGACTTTGCAGTCACCCACCTA
 ACCAAAGCCACCTGTTCTATGATGGGCGTGTGCAGTGGACACCCCGGCCATCTATAAGAGCTCCTGCA
 GCATCGACGTACCTTCTCCCTTCGACCAGCAGAAGTACCATGAAGTTTGGGTCTGGACCTACGA
 CAAGGCCAAGATTGACTTGGTGAGCATGCACAGCCGTGTGGACCAACTGGACTTCTGGGAAAGTGGGGAG
 TGGGTCAATTGTGGATGCCGTGGGACCTACAACACCAGGAAGTGAATGCTGTGCCGAGATCTATCCTG
 ACATCACCTACGCCTTATCATCCGCCGACTGCCACTGTTCTACACCATCAACCTTATCATCCCGTGCCCT
 GCTCATCTCCTGCCTCACCGTGTGGTCTTCTATCTGCCCTCGGAGTGGCGGAGAAAGTACGCTGTGC
 ATCTCGGTGCTGCTTCTCTCACCGTCTTCTGCTGCTCATCACCGAGATCATCCCGTCCACCTCGCTGG
 TCATCCCGCTCATCGGCGAGTACCTGCTTACCATGATCTTGCACCTCTCCATTGTCATCACGGT
 CTTGCTGCTCAATGTACACCACCGCTCACACGCACACACCATGCCCGCTGGGTGCGCAGAGTCTTC
 CTGGACATGTGCCCCGTCTCCTTTCATGAAGCGCCATCTGTGGTCAAAGACAACCTCCGGAGACTTA
 TCGAATCCATGCACAAGATGGCCAACGCCCTCGTTTCTGGCCAGAGCCTGAGAGTGAGCCCGCATCTT
 GGGTGACATCTGCAACCAAGGCCTGTCACTGCCCAACTTTCTGCAACCGCATGGACACAGCAGTCGAG
 ACCCAGCTACATGCAGGTCACCCTCCCAAGGTCCTGACTTGAAGACATCAGAGGTTGAGAAGGCCA
 GTCCTGTCCATCACCTGGCTCTGTGACCCACCCAATAGCAGTGGGGCCCCAGTCTCATCAAAGCCAG
 GTCCCTGAGCGTCCAGCATGTGCCAGCTCCCAGGAAGCAGCCGAGGGCAGCATCCGCTGCCGCTCGG
 AGTATCCAGTACTGTGTTCCCAAGATGGAGCTGCTTCCCTGACTGAGAGCAAGCCCACTGGCTCCCGAG
 CCTCCCTGAAGACCCGCTCCATCCAGCTTCCAGTGTGACAGCAGACCTCTCCATGCAATGCACATGCAA
 GGAACCATCTCCTGTGTCCCCATCACTGTGCTCAAGGCTGGAGGCACCAAGCACCTCCCAACACCTG
 CCCCTGTACAGCCCTGACACGGGAGTGAAGGCGTCCAGTACATTGCAGACCACCTCAAGGCAGAAG
 ACACAGACTTCTCGGTGAAGGAGGACTGGAAATACGTGGCCATGGTCATTGACCGAATCTTCTCTGGAT
 GTTCATCATTGTCTGCCTTCTGGGCACTGTGGGACTCTTCTGCCTCCATGGTTGGCTGGTATGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209587 representing NM_015730
 Red=Cloning site Green=Tags(s)

MEIGGSGAPPLLLLPLLLLGTGLLPASSHIETRAHAEERLLKRLFSGYNKWSRPVANIISDVVLVRFGL
 SIAQLIDVDEKNQMMTTNVVWKQEWHDYKLRWDPGDYENVTSIRIPSEL IWRPDI VLYNNADGDFAVTHL
 TKAHLFYDGRVQWTPPAIYKSSCSIDVTFPPFDQQNCTMKFGSWTYDKAKIDL VSMHSRVDQLDFWESGE
 WVI VDAVGTYNTRKYECAEIYPDITYAFIIRRLPLFYINLIIPCLLISCLTVLVFYL PSECGEKVTL C
 ISVLLSLTVFLLITEIIPSTSLVIPLIGEYLLFTMIFVTL SIVITVFVLNVHHRSPRTHTMPAWVRRVF
 LDIVPRLLFMKRPSVVKDNCRRLLIESMHKMANAPRFWPEPESEPGILGDICNQGLSPAPTF CNRMDTAVE
 TQPTCRSPSHKVPDLKTSEVEKASPCSPGSPGCHPPNSSGAPVL IKARSLSVQHVPSSQEA AEGSIRCRSR
 STQYCVSQDGAASL TESKPTGSPASLKTRPSQLPVSDQTS PCKCTCKEPSVSPITVLKAGGTKAPPQHL
 PLSPALTRAVEGVQYIADHLKAEDTDFSVKEDWKYVAMVIDRIFLWFMFII VCLLGTVGLFLPPWLAGMI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_015730.5 , NP_056545.3
RefSeq Size:	4509 bp
RefSeq ORF:	1890 bp
Locus ID:	11438
UniProt ID:	O70174
Cytogenetics:	2 103.54 cM
Gene Summary:	After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane permeable to sodium ions.[UniProtKB/Swiss-Prot Function]