

## Product datasheet for **MG226689**

### Chrna3 (NM\_145129) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna3 (NM_145129) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrna3
Synonyms:	(a)3; A730007P14Rik; Acra-3; Acra3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG226689 representing NM\_145129  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATCGGGTCTTCAGACATGGGTGTTGTGCTGCCCGCCGCGCTGTCCATGCTGATGCTGGTGTGATGC  
 TGCTGCCAGTGGCCAGCGCCTCGGAAGCTGAGCACCGCCTGTTCCAGTACCTGTTTGAAGATTACAACGA  
 GATCATCCGCGCCGGTGGCTAACGTGTCCATCCTGTCATCATCCAGTTTGAGGTGTCTATGTCTCAGCTG  
 GTGAAGGTGGATGAAGTAAACCAGATCATGAAACCAACCTGTGGCTGAAGCAAATCTGGAATGACTACA  
 AGCTGAAATGGAAACCTCTGACTACCAAGGGGTGGAGTTCATGCGAGTCCCTGCAGAGAAGATCTGGAA  
 ACCAGACATCGTGCTTTACAACAACGCCGATGGGGATTTCCAAGTGGATGACAAAACCAAAGCTCTACTC  
 AAGTACACAGGAGAAGTACTGGATCCCTCCGGCCATCTTTAAGAGCTCATGAAAATCGATGTGACCT  
 ACTTCCCGTTTGACTACCAAACTGCACCATGAAGTTCGGCTCCTGGTCTACGACAAGGCAAAGATCGA  
 CCTGGTCTCATTGGCTCCTCCATGAACCTCAAGGACTATTGGGAAAGTGGCGAGTGGGCCATCATTAAA  
 GCCCGGGCTACAAACATGAAATCAAGTACAACCTGCTGTGAGGAGATCTACCAAGACATCACGACTCGC  
 TATACATTCGCCCGCTGCCGCTGTTCTACACCATCAACCTCATCATTCCGTGCCTGCTCATCTCCTTCT  
 CACTGTGCTCGTCTTCTACCTGCCCTCCGACTGTGGGAGAAGGTGACGCTCTGCATCTCCGTGCTCCTC  
 TCCCTGACGGTCTTCTCCTCGTGATCACCGAGACCATCCCTCCACCTCACTGGTCACTCCCTTGATCG  
 GGGAGTACCTCCTTCTACTATGATTTTTGTACCTTGTCCATCGTCATCACAGTCTTTGTGCTCAACGT  
 GCACTACAGAACTCCGACCACACACAGATGCCCACTTGGGTCAAGGCTGTGTTTTGAACCTTCTCCCC  
 AGGGTCATGTTTATGACTAGGCCAACAGCACCGAGGAAGACGCCCAAAGACGAGGAACCTCACGGTG  
 CTGAGCTCTCAAACCTGAACTGCTTCAGCCGTGCAGACTCCAAAAGCTGCAAGGAAGGCTACCCCTGC  
 AGATGGGACATGTGGCTATTGCCACCACCGTAGGGTAAAAATCTCAAATTCAGTGCCAACCTCACAAAG  
 AGCTCCAGTCTGAGTCTGTTGATGCTGTGTTGTCCCTGTCTGCTGTGACCAGAAATCAAAGAAGCCA  
 TCCAAAGTGTGAAGTATATTGCTGAAAATATGAAAGCACAGAATGTAGCCAAAGAGATTCAAGATGATTG  
 GAAGTATGTTGCCATGGTATTGATCGCATTTTTCTCTGGGTTTTCATCTGGTGTGCATTTTAGGAACT  
 GCAGGATTATTTCTGCAACCCTTGATGGCCAGAGATGACACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG226689 representing NM\_145129  
 Red=Cloning site Green=Tags(s)

MRSSDMGVVLPPLSMLMLVLMMLPVASASEAHRFLFQYLFEDYNEIIRPVANVSHPVIIQFEVMSMSQL  
 VKVDEVNQIMETNLWLKQIWNKYKWKPSDYQGVFMRVPAEKIWKPDIVLYNNADGDFQVDDTKKALL  
 KYTGEVWIPPAIFKSSCKIDVYFPPFDYQNCMTKFGSWSYDKAKIDLVLIGSSMNLKDYWESGEWAIK  
 APGYKHEIKYNCCEEIYQDITYSLYIRRLPLFYINLIIPCLLISFLTIVLVFYLPSDCGEKVTLCISVLL  
 SLTVFLLVITETIPSTSLVIPLIGEYLLFTMIFVTLIVITVFLNVHYRTPHTHTMPTVWKAVFLNLLP  
 RVMFMTRPTSTEEDAPKTRNFYGAELSNLNCFSRADSKSCKEGYPCQDGTGCGYCHHRRVKISNFSANLTR  
 SSSSESVDVAVLSALSPEIKEAIQSVKYIAENMKAQNVAKEIQDDWKYVAMVIDRIFLWVFLVLCILGT  
 AGLFLQPLMARDT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

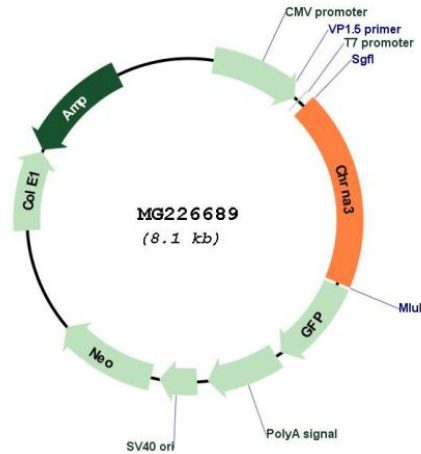
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_145129

ORF Size: 1512 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).

**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\\_145129.2](#), [NP\\_660111.2](#)

**RefSeq Size:** 3123 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 110834

**UniProt ID:** [Q8R4G9](#)

**Cytogenetics:** 9 B

**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.[UniProtKB/Swiss-Prot Function]