

## Product datasheet for **MG225729**

### Chrna5 (NM\_176844) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna5 (NM_176844) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrna5
Synonyms:	Acra-5; Acra5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225729 representing NM_176844 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGATCTCGAATGCAGGGTTGCCTGAGCTATCCTCTGCTGCAAAACATGAAGACAGTTTGTAGGG  
ATTTATTTGAAGACTATGAAAAGTGGGTTCTGCTGTGGAACACCTGAGTGACAAGATAAAAAATCAAGTT  
TGGCCTTGCAATATCTCAGTTAGTGGACGTGGATGAGAAAAACCAGCTAATGACCACCAACGTCTGGTTG  
AAGCAGGAATGGATAGATGTAAGTTAAGATGGAATCCTGATGACTATGGTGAATAAAAAATTATACGTG  
TTCCTTCAGACTCTCTGTGGATCCAGACATCGTTTTTTGTTGATAATGCAGACGGACGTTTCGAAGGGGC  
CAGTACGAAAACAGTTGTCAAGTACAATGGCACTGTCACCTGGACGCAGCCAGCAAACTACAAAAGTTCT  
TGCACTATAGATGTGACCTTTTTCCCATTTGATCTCAAAATTGCTCCATGAAATTCGGCTCATGGACGT  
ATGATGGATCCCAGGTCGATATAATCCTAGAGGACCAAGATGTCGACAGAACAGACTTTTTTGACAAATGG  
AGAATGGGAAATCATGAGCGCAATGGGGAGCAAGGGGAACCGGACGGACAGCTGCTGCTGGTACCCTGC  
ATCACCTACTCCTTCGTGATCAAACGGCTGCCTCTCTTACACCCTGTTTCTTATCATACCCTGCATCG  
GGCTCTCGTTTCTGACTGTGGTTGTCTTCTATCTCCCTCAAACGAAGGTGAAAAGATTAGCCTGTGCAC  
TTCCGTGCTGGTCTCTGACTGTCTTCTGCTGGTATTGAGGAAATTAACCGTCATCTCCAAAGTC  
ATACCTGATCGGGGAGTACTTGGTGTCCACCATGATCTTCGTGACCCTATCCATTATGGTACTGCTGT  
TTGCCATCAACATCCACCACCGCTCTTCTCCACACACAATGCTATGGCGCCGTGGTTTCGTAAGATATT  
TCTCCACAAGCTTCCCAAAGTCTGCTGATGAGAAGTCATGCCGATAGGTACTTCACTCAGAGAGAAGAA  
GCCGAGAAAGACGGTGGACCTAAATCTCGGAATACTTTGGAGGCCGCGCTCGATTGCATTCGCTACATCA  
CGAGACACGTAGTGAAAGAGAACGACGTCGCGAGGTTGTTGAAGATTGAAAATTCATAGCCCAAGTTCT  
CGATCGGATGTTTCTATGGACGTTTCTTCTGGTTTCAATCATTGGGACGCTAGGGCTTTTTGTTCTCTGTT  
ATTTATAAATGGCCAATATAATAGTCCCAGTTACATTGGAAACACAATTAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225729 representing NM\_176844  
 Red=Cloning site Green=Tags(s)

MQISNAGLPELSSAAKHEDSLFRDLFEDYEKWRPVEHLSDKIKIKFGLAISQLVDVDEKNQLMTTNVWL  
 KQEWIDVKLRWNPDDYGGIKIIRVPSDSLWIPDIVLFDNADGRFEGASTKTVVRYNGTVTWTQPANYKSS  
 CTIDVTFPPFDLQNCMKFGSWTYDGSQVDIILEDQDVRTDFDNGEWEIMSAMGSKGNRTDSCCWYPC  
 ITYSFVIKRLPLFYTLFLIIPCIGLSFLTVVVFYLPNEGEKISLCTSVLVSLTVFLLVIEEIIIPSSSKV  
 IPLIGEYLVFTMIFVTLSIMVTVFAINIHRSSSTHNAMAPWVRKIFLHKLPKLLCMRSHADRYFTQREE  
 AEKDGPKSRNTLEAALDCIRYITRHVVKENDVREVVEDWKFIAQVLD RMFLWTFLLVSIIGTLGLFVVP  
 IYKWANIIVPVHIGNTIK

TRTRPLE - GFP Tag - V

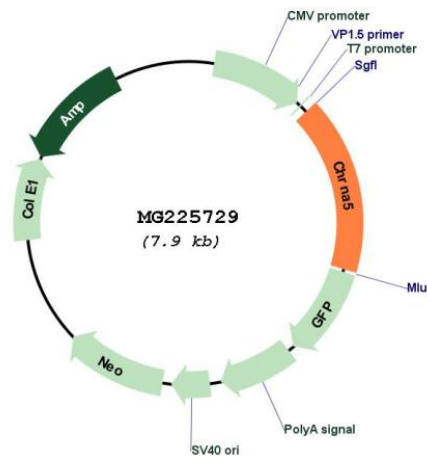
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_176844

<b>ORF Size:</b>	1314 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_176844.5</a>
<b>RefSeq Size:</b>	2738 bp
<b>RefSeq ORF:</b>	1317 bp
<b>Locus ID:</b>	110835
<b>UniProt ID:</b>	<a href="#">Q2MKA5</a>
<b>Cytogenetics:</b>	9 29.84 cM
<b>Gene Summary:</b>	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]