

Product datasheet for **MG216735**

Acvr1c (NM_001111030) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acvr1c (NM_001111030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acvr1c
Synonyms:	ACTR-IC; ACVRLK7; Alk-7; ALK7; C230097P10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216735 representing NM_001111030
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCCAGCGCGGGCTCCGCACTGAGCCTGGCCCTCTGCTGGTGGCCCTGGCCGCCGACCTTGCGG
 CAGGACTGAAGTGTGTGTCTTTTGTGTGATTCTTCAAACCTCACCTGCCAAACGGAAGGAGCATGTTG
 GGCTCCGTCATGCTAACCAACGGGAAAGAGCAGGTGATCAAATCGTGTGTGCCCTCCCGAACTAAAT
 GCTCAGGTCTTCTGTACAGTTCACAAACGTGACCAAAACCGAATGTTGCTTACAGACTTCTGCAACA
 ATATCACACTGCACCTTCCACAGCATCGCAAATGCCCTCGACTTGGTCCCACAGAGCTGACGGTGT
 TATCACCGTGCCGGTTTGCCTCCTGTCCATAGCCGCCATGCTAACAAATATGGGCGTGCCAGGACGCCAG
 TGCACATACAGGAAGACTAAGAGACACAACGTGGAGGAAGCGCTGGCTGAGTACAGCCTTGTGAATGCAG
 GAAAAACTCAAGGATCTGATCTACGATGCTACTGCCTGGCTCAGGCTCTGGTCTGCCTCTCTTGGT
 TCAAAGAACAATCGAAGGACAATTGTACTTCAAGAAATCGTAGGAAAAGGTCGGTTTGGGGAAGTGTGG
 CACGGAAGATGGTGTGGAGAAGATGTGGCTGTGAAAATATTCTCCTCCAGGGATGAGAGATCTTGGTTCC
 GTGAGGCGGAAATTTATCAGACGGTGATGCTGAGACACGAGAATCCTCGGTTTCATCGCAGCTGACAA
 CAAAGATAATGGAACCTGGACACAACCTCTGGCTTGTGTCAGAGTATCACGAGCAGGGCTCCTTGTATGAC
 TATTTGAACAGAAACATAGTGACTGTGGCTGGAATGGTCAAGCTGGCGCTTCCATAGCGAGTGGTCTGG
 CTCACCTGCACATGGAGATCGTGGGTAAGCTGCTATTGCTCACCGAGATATAAAGTCAAA
 GAATATCTAGTCAAAAAATGTGACACTTGTGCCATAGCTGACTTAGGGCTGGCTGTGAAGCAGGATTCT
 ATCATGAACACTATAGACATACCCAGAATCCTAAAGTGGGAACCAAGAGGTACATGGCTCCCGAAATGC
 TTGATGATACAAATGAACCTGAGCATCTTTGAGTCTTCAAGCGAGCTGACATCTATTCGGTGGGCTGC
 TTAGTGGGAAATAGCTCGAAGGTGTTCAAGTGGAGGAGTTGTTGAGGAGTACCAGTTGCCTTACTATGAC
 ATGGTGCCTTCAAGTCTCGATAGAAGAAATGAGGAAGTTGTCTGTGATCAGAAACTCCGACCAATC
 TCCCAAACAGTGGCAAAGCTGTGAAGCGCTGCGGGTCATGGGAAGAATAATGCGTGAGTGTGGTACGC
 CAACGGGGCAGCAGCCTGACAGCCCTGCGCGTGAAGAAGACCATCTCCAGCTGTGTGTCAAGGAAGAC
 TGTAAAGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG216735 representing NM_001111030
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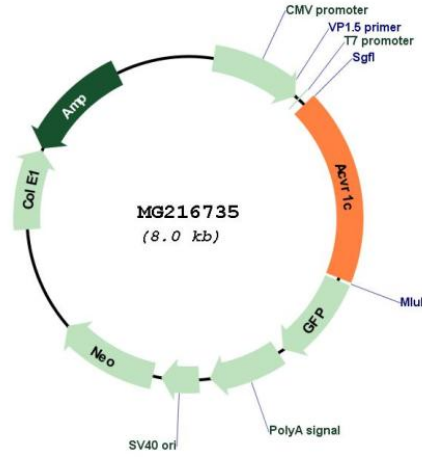
MTPARGSALSLALLLVALAADLAAGLKCVLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELN
 AQVFCSSNNVTKTECCFTDFCANNITLHLPTASPNAPRLGPTTELTVVITVPVCLLSIAAMLTIWACQDRQ
 CTYRKTKRHNVEEALAEYSLVNAGKTLKDLIYDATASGSGSGLPLLQRTIARTIVLQEIYVKGGRFGEVW
 HGRWCGEDVAVKIFSSRDERSWFREAIEYQTVMLRHENILGFIAADNKDNGTWTQLWLVSSEYHEQGS
 LYDYLNRNIYTVAGMVKLALSIAASGLAHLHMEIVGTQGKPAIAHRDIKSKNILVKKCDTCAIADLGLAVK
 HDSIMNTIDIPQNPVKVGTKRYMAPEMLDDTMNLSIFESFKRADIYSVGLVYWEIARRCSVGGVVEEYQL
 PYYDMVPSDPSIEEMRNVVCDQKLRPNLPNQWQSCEALRVMGRIMRECWYANGAARLTALRVKKTISQLC
 VKEDCKA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_001111030

ORF Size: 1479 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001111030.1, NP_001104500.1</p>
RefSeq Size:	<p>9033 bp</p>
RefSeq ORF:	<p>1482 bp</p>
Locus ID:	<p>269275</p>
UniProt ID:	<p>Q8K348</p>
Cytogenetics:	<p>2 C1.1</p>
Gene Summary:	<p>Serine/threonine protein kinase which forms a receptor complex on ligand binding. The receptor complex consisting of 2 type II and 2 type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators, SMAD2 and SMAD3. Receptor for activin AB, activin B and NODAL. Plays a role in cell differentiation, growth arrest and apoptosis.[UniProtKB/Swiss-Prot Function]</p>