

Product datasheet for **RR211347**

Acvr1c (NM_139090) Rat Tagged ORF Clone

Product data:

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|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Acvr1c (NM_139090) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Acvr1c |
| Synonyms: | Alk-7; Alk7; habrec1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR211347 representing NM_139090
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCCAGCAAGCGCTCCGCACTGAGCCTGGCCCTCTGCTGGTGGCACTGGCTCCGACCTTGCGG
 CAGGACTGAAGTGTGTGTCTTTGTGTGATTCTCAAACCTTACCTGCCAAACCGAAGGAGCATGCTG
 GGCTCTGTCTGCTAACCAACGGGAAAGAACAGGTGATCAAATCGTGCCTGTCCCTCCCGAACTAAAT
 GCTCAGTCTTCTGTACAGTTCACCAACGTGACCAAGACCGAATGTTGCTTACAGACTTCTGCAACA
 ACATCACTCTGCACCTTCCACAGCATCTCCAGATGCCCTAGACTTGGCCCCACAGAGCTGACAGTTGT
 TATCACTGTACCTGTTTGCCTCTGTCCATCGCAGCCATGCTAACGATATGGGCTGCCAGGACCGCCAG
 TGCACATACAGGAAGACCAAGAGACACAATGTGGAGGAACCACTGGCAGAGTACAGCCTTGCAATGCTG
 GAAAAACCCTCAAAGATCTGATTTATGATGCCACTGCCTCGGGCTCAGGATCTGGCTGCCTTTTTGGT
 TCAAAGAACCATCGAAGGACAATTGTACTTCAAGAAATCGTAGGAAAAGGTCGGTTTGGGAAGTGTGG
 CACGGAAGATGGTGTGGAGAAGATGTGGCTGTGAAAATATTCTCCTCCAGAGATGAGAGATCTTGGTTCC
 GTGAGGCGAAATTTATCAGACGGTAATGCTGAGACATGAGAATATTCTCGGTTTCATCGCGGCCGACAA
 CAAAGATAATGGAACCTGGACTCAGCTTGGCTTGTGTCAGAGTATCACGAGCAGGGCTCCTTATATGAC
 TATTTGAATAGAAACATAGTGACCGTGGCTGGAATGGTCAAGTTGGCGCTTCAATAGCGAGTGGTCTGG
 CTCACCTACACATGGAGATCGTGGGCACTCAAGGTAAGCTGCTATTGCTCACCGAGATATAAAGTCAA
 GAATATCTTAGTCAAAAAGTGTGACACTTGTGCCATAGCTGACTTAGGGCTGGCTGTGAAACATGATTCT
 ATCATGAACACTATAGATATACCCAGAATCCTAAAGTGGGAACCAAGAGGTATATGGCTCCCGAAATGC
 TTGATGATAACAATGAACGTCAACATCTTTGAGTCTTCAAGCGAGCTGACATCTATTCGGTGGGGCTGGT
 TTACTGGGAAATAGCTCGAAGGTTCAGTTGGAGGACTTGTGAAGAGTACCAGTTGCCTTATTATGAC
 ATGGTGCCTTCAGATCCTTCCATAGAGGAAATGAGGAAGGTCGTTTGTGATCAGAAACTCCGACCAAATC
 TCCCAAACAGTGGCAAAGCTGTGAGGCCTCCGGGTCATGGGAAGAATAATGCGTGAGTGTGGTATGC
 CAACGGGGCAGCTCGCTGACCGCCCTGCGCGTGAAGAAGACATTTCTCAGCTGTGTGCAAGGAAGAC
 TGAAGGCC

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211347 representing NM_139090
 Red=Cloning site Green=Tags(s)

MTPASRSALSLALLLVALASDLAAGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELN
 AQVFCSSNNVTKTECCFTDFCNNITLHLPTASPDAPRLGPTTELTVVITVPVCLLSIAAMLIWACQDRQ
 CTYRKTKRHNVEEPLAEYSLVNAGKTLKDLIYDATASGSGSGLPLLVRTIARTIVLQEI V GKGRFGEVW
 HGRWCGEDVAVKIFSSRDERSWFRFAEIQTVMLRHENILGFIAADNKDNGTWTQLWL VSEYHEQGS LYD
 YLNRNIIVTVAGMVKLALSIAAGLAHLHMEIVGTQGKPAIAHRDIKSKNILVKKCDTCAIADLGLAVKHDS
 IMNTIDIPQNPVKGTTRYMAPEMLDDTMNVNIFESFKRADIYSVGLVYWEIARRCSVGGLVVEEYQLPYD
 MVPSPSIEEMRQVCDQKLRPNLPNQWQSCEALRVMGRIMREC WYANGAARLTALRVKKTISQLCVKED
 CKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

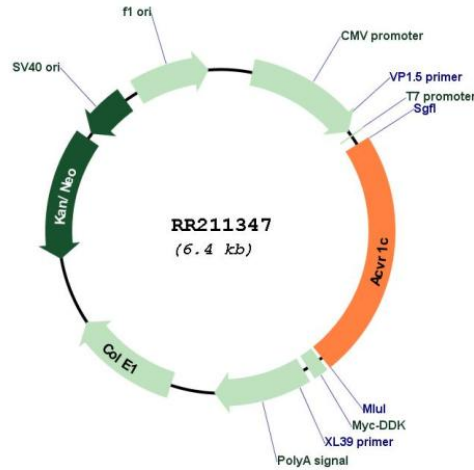
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_139090

ORF Size: 1479 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_139090.1](#), [NP_620790.1](#)

RefSeq Size: 1895 bp

RefSeq ORF: 1482 bp

Locus ID: 245921

UniProt ID: [P70539](#)

Cytogenetics: 3q21

MW: 54.8 kDa

Gene Summary: may play a role in neuronal maturation [RGD, Feb 2006]