

## Product datasheet for **RC205434**

### Activin A Receptor Type IC (ACVR1C) (NM\_145259) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IC (ACVR1C) (NM_145259) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Activin A Receptor Type IC
Synonyms:	ACVRLK7; ALK7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205434 representing NM\_145259  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCCGGGCGCTCTGCTCAGCGCTCCGCCAGGCTCTCCTGCTGCTCGCAGCGCCGCCGAGCTCTCGC  
 CAGGACTGAAGTGTATGTCTTTTGTGTGATTCTTCAAACCTTACCTGCCAAACAGAAGGAGCATGTTG  
 GGCATCAGTCATGCTAACCAATGAAAAAGAGCAGGTGATCAAATCCTGTGTCTCCCTCCAGAACTGAAT  
 GCTCAAGTCTTCTGTCATAGTTCCAACAATGTTACCAAAACCGAATGCTGCTTCACAGATTTTGAACA  
 ACATAACACTGCACCTTCCAACAGCATCACAAATGCCCAAACTTGGACCCATGGAGCTGGCCATCAT  
 TATTACTGTGCCTGTTTGCCTCCTGTCCATAGCTGCGATGCTGACAGTATGGGCATGCCAGGTCGACAG  
 TGCTCCTACAGGAAGAAAAAGAGACCAATGTGGAGGAACCACTCTGAGTGAATCTGGTAAATGCTG  
 GAAAACTCTGAAAGATCTGATTTATGATGTGACCGCCTCTGGATCTGGCTCTGGTCTACCTCTGTTGGT  
 TCAAAGGACAATTGCAAGGACGATTGTGCTTCAGGAAATAGTAGGAAAAGGTAGATTTGGTGAGGTGTGG  
 CATGGAAGATGGTGTGGGGAAGATGTGGCTGTGAAAATATTCTCCTCCAGAGATGAAAGATATTGGTTTC  
 GTGAGGCAGAAATTTACCAGACGGTCATGCTGCGACATGAAAACATCCTTGGTTTCATTGCTGCTGACAA  
 CAAAGATAATGGAACCTGGACTCAACTTGGCTGGTATCTGAATATCATGAACAGGGCTCCTTATATGAC  
 TATTTGAATAGAAATATAGTGACCATGGCTGGAATGATCAAGCTGGCGCTCTCAATTGCTAGTGGTCTGG  
 CACACCTTCATATGGAGATTGTTGGTACACAAGGTAACCTGCTATTGCTCATCGAGACATAAAATCAA  
 GAATATCTTAGTAAAAAGTGTGAACTTGTGCCATAGCGGACTTAGGGTTGGCTGTGAAGCATGATTCA  
 ATACTGAACACTATCGACATACCTCAGAATCCTAAAGTGGGAACCAAGAGGTATATGGCTCCTGAAATGC  
 TTGATGATACAATGAATGTGAATATCTTTGAGTCTTCAAACGAGCTGACATCTATTCTGTTGGCTGGT  
 TTACTGGGAAATAGCCCGGAGGTGTTCACTCGGAGGAATTGTTGAGGAGTACCAATTGCCTTATTATGAC  
 ATGGTGCCTTCAGATCCCTCGATAGAGGAAATGAGAAAGTTGTTTGTGACCAGAAGTTTCGACCAAGTA  
 TCCCAAACAGTGGCAAAGTTGTGAAGCACTCCGAGTCATGGGGAGAATAATGCGTGAGTGTGGTATGC  
 CAACGGAGCGGCCCGCTAACTGCTCTTCGTATTAAGAAGACTATATCTCAACTTTGTGTCAAAGAAGAC  
 TGCAAAGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205434 representing NM\_145259  
 Red=Cloning site Green=Tags(s)

MTRALCSALRQALLLLAAAAELSPGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELN  
 AQVFCSSNNVTKTECCFTDFCENNITLHLPASPAPKLGPMELAIITVPCVLLSIAAMLTVWACQGRQ  
 CSYRKKRPNVEEPLSECNLVNAGKTLKDLIYDVTASGSGSGLPLLQRTIARTIVLQEIYVKGGRFGEVW  
 HGRWCGEDVAVKIFSSRDERYWFREAEIYQTVMLRHENILGFIADNKNNGTWTQLWLVEYHEQGSLEYD  
 YLNRNIVTMAGMIKLALSIAASGLAHLHMEIVGTQGKPAIAHRDIKSKNILVKKCETCAIADLGLAVKHDS  
 ILNLTIDIPQNPVKTKRYMAPEMLDDTMNVNIFESFKRADIYSVGLVYWEIARRCSVGGIVEEYQLPYD  
 MVPSDPSIEEMRKVVCDQKFRPSIPNQWQSCEALRVMGRIMRECWYANGAARLTALRIKKTISQLCVKED  
 CKA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2637\\_d01.zip](https://cdn.origene.com/chromatograms/mg2637_d01.zip)

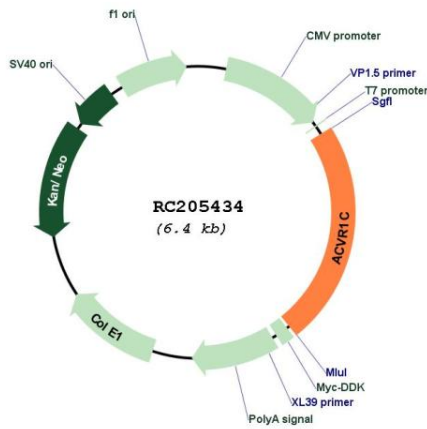
**Restriction Sites:**

Sgfl-Mlul

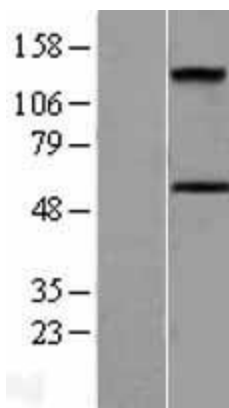


**UniProt ID:** [Q8NER5](#)  
**Cytogenetics:** 2q24.1  
**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane  
**Protein Pathways:** Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway  
**MW:** 54.7 kDa  
**Gene Summary:** ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM, Mar 2008]

### Product images:



Circular map for RC205434



Western blot validation of overexpression lysate (Cat# [LY403426]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205434 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).