

## Product datasheet for **RG225725**

### Activin A Receptor Type IC (ACVR1C) (NM\_001111031) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IC (ACVR1C) (NM_001111031) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACVR1C
Synonyms:	ACVRLK7; ALK7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225725 representing NM_001111031 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTAACCAATGGAAAAGAGCAGGTGATCAAATCCTGTGTCTCCCTCCAGAACTGAATGCTCAAGTCT  
TCTGTCATAGTTCCAACAATGTTACAAAACCGAATGCTGCTTCACAGATTTTGGCAACAACATAACACT  
GCACCTTCCAACAGCATACCAAATGCCCAAACTTGGACCCATGGAGCTGGCCATCATTACTGTG  
CCTGTTTGCTCCTGTCCATAGCTGCGATGCTGACAGTATGGGCATGCCAGGGTCGACAGTCTCCTACA  
GGAAGAAAAGAGACCAAATGTGGAGGAACCACTCTGAGTGAATCTGGTAAATGCTGGAAAACCTCT  
GAAAGATCTGATTTATGATGTGACCGCCTCTGGATCTGGCTCTGGTCTACCTCTGTTGGTTCAAAGGACA  
ATTGCAAGGACGATTGTGCTTCAGGAAATAGTAGGAAAAGGTAGATTTGGTGAGGTGTGGCATGGAAGAT  
GGTGTGGGGAAGATGTGGCTGTGAAAATATTCTCCTCCAGAGATGAAAGATCTTGGTTTCGTGAGGCAGA  
AATTTACCAGACGGTCATGCTGCGACATGAAAACATCCTTGGTTTCATTGCTGCTGACAACAAAGATAAT  
GGAACCTGGACTCAACTTGGCTGGTATCTGAATATCATGAACAGGGCTCCTTATATGACTATTTGAATA  
GAAATATAGTGACCGTGGCTGGAATGATCAAGCTGGCGCTCTCAATTGCTAGTGGTCTGGCACACCTTCA  
TATGGAGATTGTTGGTACACAAGGTAACCTGCTATTGCTCATCGAGACATAAAATCAAAGAATATCTTA  
GTGAAAAGTGTGAACTTGTGCCATAGCGGACTTAGGGTTGGCTGTGAAGCATGATTCAACTAGTGAACA  
CTATCGACATACCTCAGAATCCTAAAGTGGGAACCAAGAGGTATATGGCTCCTGAAATGCTTGATGATAC  
AATGAATGTGAATATCTTTGAGTCTTCAAACGAGCTGACATCTATTCTGTTGGTCTGGTTACTGGGAA  
ATAGCCCCGGAGGTGTTCAAGTCGGAGGAATTGTTGAGGAGTACCAATTGCCTTATTATGACATGGTGCCTT  
CAGATCCCTCGATAGAGGAAATGAGAAAGGTTGTTTGTGACCAGAAGTTTCGACCAAGTATCCCAAACCA  
GTGGCAAAGTTGTGAAGCACTCCGAGTCATGGGAGAATAATGCGTGAGTGTGGTATGCCAACGGAGCG  
GCCCGCTAACTGCTCTCGTATTAAGAAGACTATATCTCAACTTTGTGTCAAAGAAGACTGCAAAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225725 representing NM\_001111031  
 Red=Cloning site Green=Tags(s)

MLTNGKEQVIKSCVSLPELNAQVFCSSNNVTKECCFTDFCENNITLHLPTASPNAPKLGPMELAIITV  
 PVCLLSIAAMLTVWACQGRQCSYRKKRPNVEEPLSECNLVNAGKTLKDLIYDVTASGSGSGLPLLVRT  
 IARTIVLQEIYVGRFGEVWHGRWCGEDVAVKIFSSRDERSWFRFAEIIYQTVMLRHENILGFIAADNKDN  
 GTWTQLWLVSHEYHEQGSLYDYLNRNIVTVAGMIKLALSIAASGLAHLHMEIVGTQKPAIAHRDIKSKNIL  
 VKKCECAIADLGLAVKHDSILNTIDIPQNPVKGTKRYMAPEMLDDTMNVNIFESFKRADIYSVGLVYWE  
 IARRCSVGGIVEEYQLPYYDMVPSDPSIEEMRKVVCDQKFRSPINQWQSCEALVMGRIMRECWYANGA  
 ARLTALRIKKTISQLCVKEDCKA

TRTRPLE – GFP Tag – V

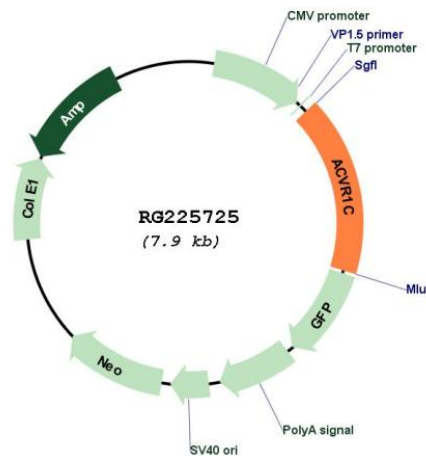
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001111031

<b>ORF Size:</b>	1329 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_001111031.1</a> , <a href="#">NP_001104501.1</a>
<b>RefSeq Size:</b>	8777 bp
<b>RefSeq ORF:</b>	1332 bp
<b>Locus ID:</b>	130399
<b>UniProt ID:</b>	<a href="#">Q8NER5</a>
<b>Cytogenetics:</b>	2q24.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
<b>Gene Summary:</b>	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]