

## Product datasheet for **RG225494**

### Activin A Receptor Type IC (ACVR1C) (NM\_001111033) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IC (ACVR1C) (NM_001111033) 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:	>RG225494 representing NM_001111033 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCGGGCGCTCTGCTCAGCGCTCCGCCAGGCTCTCCTGCTGCTCGCAGCGGCCGCGAGCTCTCGC  
CAGGACTGAAGTGTGTATGTCTTTGTGTATTCTTCAAACCTTACCTGCCAAACAGAAGGAGCATGTTG  
GGCATCAGTCATGCTAACCAATGGAAAAGAGCAGGTGATCAAATCCTGTGTCTCCCTCCAGAACTGAAT  
GCTCAAGTCTTGTGCATAGTTCCAACAATGTTACCAAAACCGAATGCTGCTTCACAGATTTTTGCAACA  
ACATAACACTGCACCTTCCAACAGATAATGGAACCTGGACTCAACTTTGGCTGGTATCTGAATATCATGA  
ACAGGGCTCCTTATAGACTATTTGAATAGAAATATAGTGACCGTGGCTGGAATGATCAAGCTGGCGCTC  
TCAATTGCTAGTGGTCTGGCACACCTTCATATGGAGATTGTTGGTACACAAGGTAACCTGCTATTGCTC  
ATCGAGACATAAAATCAAAGAATATCTTAGTAAAAAGTGTGAACTTGTGCCATAGCGGACTTAGGGTT  
GGCTGTGAAGCATGATTCAACTGAACACTATCGACATACCTCAGAATCCTAAAGTGGGAACCAAGAGG  
TATATGGCTCCTGAAATGCTTGATGATAACAATGAATGTGAATATCTTTGAGTCTTCAAACGAGCTGACA  
TCTATTCTGTTGGTCTGGTTTACTGGGAAATAGCCCGGAGGTGTTTCAGTCGGAGGAATTGTTGAGGAGTA  
CCAATTGCCTTATTATGACATGGTGCCTTCAGATCCCTCGATAGAGGAAATGAGAAAGGTTGTTTGTGAC  
CAGAAGTTTCGACCAAGTATCCCAAACCGTGGCAAAGTTGTGAAGCACTCCGAGTCATGGGAGAATAA  
TGCCTGAGTGTTGGTATGCCAACGGAGCGCCCGCCTAACTGCTCTTCGATTAAGAAGACTATATCTCA  
ACTTTGTGTCAAAGAAGACTGCAAAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225494 representing NM\_001111033  
Red=Cloning site Green=Tags(s)

MTRALCSALRQALLLLAAAAELSPGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELN  
 AQVFCHSSNNVTKTECCFTDFCNNITLHLPDNGTWTQLWL VSEYHEQGSLYDYLNRNIVTVAGMIKLAL  
 SIASGLAHLHMEIVGTQGKPAIAHRDIKSKNILVKKCETCAIADLGLAVKHDSILNTIDIPQNPVKVGTGR  
 YMAPEMLDDTMNVNIFESFKRADIYSVGLVYWEIARRCSVGGIVEEYQLPYDDMVPSPDPSIEEMRKVVCD  
 QKFRPSIPNQWQSCEALRYMGRIMRECWYANGAARLTALRIKKTISQLCVKEDCKA

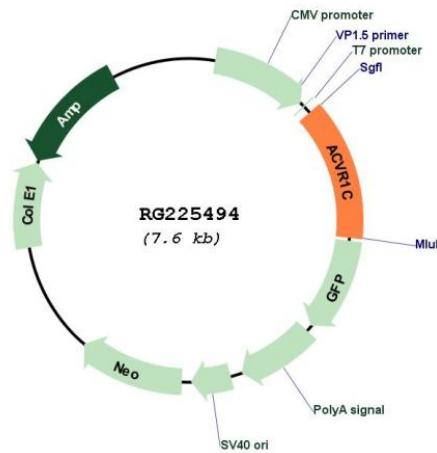
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001111033

**ORF Size:** 1008 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_001111033.1</a> , <a href="#">NP_001104503.1</a>
<b>RefSeq Size:</b>	8421 bp
<b>RefSeq ORF:</b>	1011 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]