

Product datasheet for **RG225649**

Activin A Receptor Type IC (ACVR1C) (NM_001111032) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IC (ACVR1C) (NM_001111032) 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:	>RG225649 representing NM_001111032 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGGGCGCTCTGCTCAGCGCTCCGCCAGGCTCTCCTGCTGCTCGCAGCGGCCGCCGAGCTCTCGC
CAGGACTGAAGTGTGTATGTCTTTGTGTGATTCTTCAAACCTTACCTGCCAAACAGAAGGAGCATGTTG
GGCATCAGTCATGCTAACCAATGGAAAAGAGCAGGTGATCAAATCCTGTGTCTCCCTTCCAGAACTGAAT
GCTCAAGTCTTCTGTCATAGTTCCAACAATGTTACCAAAACCGAATGCTGCTTCACAGATTTTTGCAACA
ACATAACACTGCACCTTCCAACAGGTCTACCTCTGTTGGTTCAAAGGACAATTGCAAGGACGATTGTGCT
TCAGGAAATAGTAGGAAAAGGTAGATTTGGTGAGGTGTGGCATGGAAGATGGTGTGGGGAAGATGTGGCT
GTGAAAATATTCTCCTCCAGAGATGAAAGATCTTGGTTTCGTGAGGCAGAAATTTACCAGACGGTATCGC
TGCGACATGAAAACATCCTTGGTTTCATTGCTGCTGACAACAAAGATAATGGAACCTGGACTCAACTTTG
GCTGGTATCTGAATATCATGAACAGGGCTCCTTATGACTATTTGAATAGAAATATAGTGACCGTGGCT
GGAATGATCAAGCTGGCGCTCTCAATTGCTAGTGGTCTGGCACACCTTCATATGGAGATTGTTGGTACAC
AAGGTAACCTGCTATTGCTCATCGAGACATAAAATCAAAGAATATCTTAGTGAAAAAGTGTGAACTTG
TGCCATAGCGGACTTAGGGTTGGCTGTGAAGCATGATTCAATACTGAACACTATCGACATACCTCAGAAT
CCTAAAGTGGGAACCAAGAGGTATATGGCTCCTGAAATGCTTGATGATACAATGAATGTGAATATCTTTG
AGTCCTTCAAACGAGCTGACATCTATTCTGTTGGTCTGGTTACTGGGAAATAGCCCGGAGGTGTTCAGT
CGGAGGAATTGTTGAGGAGTACCAATTGCCTTATTATGACATGGTGCCTTCAGATCCCTCGATAGAGGAA
ATGAGAAAGTTGTTGTGACCAAGTTTCGACCAAGTATCCCAAACAGTGGCAAAGTTGTGAAGCAC
TCCGAGTCATGGGGAGAATAATGCGTGAGTGTGGTATGCCAACGGAGCGGCCCGCTAACTGCTCTTCG
TATTAAGAAGACTATATCTCAACTTTGTGTCAAAGAAGACTGCAAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225649 representing NM_001111032
 Red=Cloning site Green=Tags(s)

MTRALCSALRQALLLLAAAAELSPGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELN
 AQVFCHSSNNVTKTECCFTDFCNNITLHLPGLPLLVRTIARTIVLQEIVGKGRFGEVWHGRWCGEDVA
 VKIFSSRDERSWFRFAEIQYTVMLRHENILGFIAADNKDNGTWTQLWL VSEYHEQGSLYDYLNRNIVTVA
 GMIKLALSIASGLAHLHMEIVGTQGKPAIAHRDIKSKNILVKKCETCAIADLGLAVKHDSILNTIDIPQN
 PKVGTKRYMAPEMLDDTMNVNIFESFKRADIYSVGLVYWEIARRCSVGGIVEEYQLPYDYMDVSDPSIEE
 MRKVVCQDKFRPSIPNQWQSCEALRVMGRIMRECWYANGAARLTALRIKKTISQLCVKEDCKA

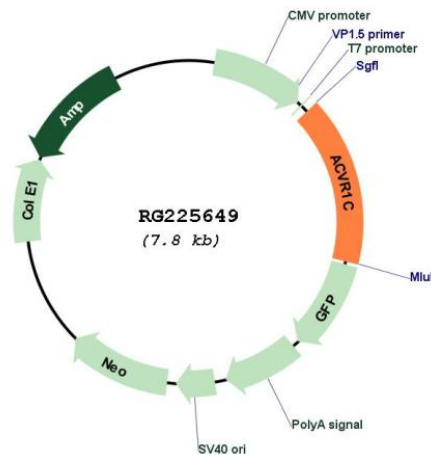
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001111032

ORF Size:	1239 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:	<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:	NM_001111032.1 , NP_001104502.1
RefSeq Size:	8652 bp
RefSeq ORF:	1242 bp
Locus ID:	130399
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
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]