OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC321860

ACVRL1 (NM_000020) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACVRL1 (NM_000020) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACVRL1
Synonyms:	ACVRLK1; ALK-1; ALK1; HHT; HHT2; ORW2; SKR3; TSR-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_000020.1
CTCCACCTCTCTTGCTCCTCTCTGCAGGGACCATGACCTTGGGCTCCCCCAGGAAAGGCC
TTCTGATGCTGCTGATGGCCTTGGTGACCCAGGGAGACCCTGTGAAGCCGTCTCGGGGCC
CGCTGGTGACCTGCACGTGTGAGAGCCCACATTGCAAGGGGCCTACCTGCCGGGGGGCCT
GGTGCACAGTAGTGCTGGTGCGGGAGGAGGGGAGGCACCCCCAGGAACATCGGGGCTGCG
GGAACTTGCACAGGGAGCTCTGCAGGGGGCGCCCCACCGAGTTCGTCAACCACTACTGCT
GCGACAGCCACCTCTGCAACCACAACGTGTCCCTGGTGCTGGAGGCCACCCAACCTCCTT
CGGAGCAGCCGGGAACAGATGGCCAGCTGGCCCTGATCCTGGGCCCCGTGCTGGCCTTGC
TGGCCCTGGTGGCCCTGGGTGTCCTGGGCCTGTGGCATGTCCGACGGAGGCAGGAGAAGC
AGCGTGGCCTGCACAGCGAGCTGGGAGAGTCCAGTCTCATCCTGAAAGCATCTGAGCAGG
GCGACAGCATGTTGGGGGACCTCCTGGACAGTGACTGCACCACAGGGAGTGGCTCAGGGC
TCCCCTTCCTGGTGCAGAGGACAGTGGCACGGCAGGTTGCCTTGGTGGAGTGTGTGGGAA
AAGGCCGCTATGGCGAAGTGTGGCGGGGCTTGTGGCACGGTGAGAGTGTGGCCGTCAAGA
TCTTCTCCTCGAGGGATGAACAGTCCTGGTTCCGGGAGACTGAGATCTATAACACAGTGT
TGCTCAGACACGACAACATCCTAGGCTTCATCGCCTCAGACATGACCTCCCGCAACTCGA
GCACGCAGCTGTGGCTCATCACGCACTACCACGAGCACGGCTCCCTCTACGACTTTCTGC
AGAGACAGACGCTGGAGCCCCATCTGGCTCTGAGGCTAGCTGTGTCCGCGGCATGCGGCC
TGGCGCACCTGCACGTGGAGATCTTCGGTACACAGGGCAAACCAGCCATTGCCCACCGCG
ACTTCAAGAGCCGCAATGTGCTGGTCAAGAGCAACCTGCAGTGTTGCATCGCCGACCTGG
GCCTGGCTGTGATGCACTCACAGGGCAGCGATTACCTGGACATCGGCAACAACCCGAGAG
TGGGCACCAAGCGGTACATGGCACCCGAGGTGCTGGACGAGCAGATCCGCACGGACTGCT
TTGAGTCCTACAAGTGGACTGACATCTGGGCCTTTGGCCTGGTGCTGTGGGAGATTGCCC
GCCGGACCATCGTGAATGGCATCGTGGAGGACTATAGACCACCCTTCTATGATGTGGTGC
CCAATGACCCCAGCTTTGAGGACATGAAGAAGGTGGTGTGTGTGGATCAGCAGACCCCCA
CCATCCCTAACCGGCTGGCTGCAGACCCGGTCCTCTCAGGCCTAGCTCAGATGATGCGGG
AGTGCTGGTACCCAAACCCCTCTGCCCGACTCACCGCGCTGCGGATCAAGAAGACACTAC
AAAAAATTAGCAACAGTCCAGAGAAGCCTAAAGTGATTCAATAGCCCAGGAGCACCTGAT
TCCTTTCTGCCTGCAGGGGGCTGGGGGGGTGGGGGGCAGTGGATGGTGCCCTATCTGGGT
AGAGGTAGTGTGAGTGTGGTGTGTGCTGGGGATGGGCAGCTGCGCCTGCCTGTTTGGCCC
CCAGCCCCCCCAGCCAAAAATACAGCTGGGCTGAAACCTGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_000020

Insert Size: 1512 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000020.1, NP_000011.1
RefSeq Size:	1970 bp
RefSeq ORF:	1512 bp
Locus ID:	94
UniProt ID:	P37023
Cytogenetics:	12q13.13
Domains:	Activin_recp, pkinase, TyrKc, S_TKc, GS
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
Gene Summary:	This gene encodes a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. The encoded protein, sometimes termed ALK1, shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Mutations in this gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same isoform.