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Product datasheet for SC323695

CDK15 (NM_139158) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK15 (NM_139158) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK15
Synonyms:	ALS2CR7; PFTAIRE2; PFTK2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC323695 sequence for NM_139158 edited (data generated by NextGen Sequencing)

ATGACTTCATTTCACCCCAGGGGACTTCAAGCTGCCCGTGCCCAGAAGTTCAAGAGTAAA
AGGCCACGGAGTAACAGTGATTGTTTTCAGGAAGAGGATCTGAGGCAGGGTTTTCAGTGG
AGGAAGAGCCTCCCTTTTGGGGCAGCCTCATCTTACTTGAACTTGGAGAAGCTGGGTGAA
GGCTCTTATGCGACAGTTTACAAGGGGATTAGCAGAATAAATGGACAACTAGTGGCTTTA
AWRGTCATCAGCATGAATGCAGAGGAAGGAGTCCCATTTACAGCTATCCGAGAAGCTTCT
CTCCTGAAGGGTTTGAAACATGCCAATATTGTGCTCCTGCATGACATAATCCACACCAAA
GAGACACTGACATTCGTTTTTGAATACATGCACACAGACCTGGCCCAGTATATGTCTCAG
CATCCAGGAGGGCTTCATCCTCATAATGTCAGACTTTTCATGTTTCAACTTTTGCGGGGC
CTGGCGTACATCCACCACCAACACGTTCTTCACAGGGACCTGAAACCTCAGAACTTACTC
ATCAGTCACCTGGGAGAGCTCAAACTGGCTGATTTTGGTCTTGCCCGGGCCAAGTCCATT
CCCAGCCAGACATACTCTTCAGAAGTCGTGACCCTCTGGTACCGGCCCCCTGATGCTTTG
CTGGGAGCCACTGAATATTCCTCTGAGCTGGACATATGGGGTGCAGGCTGCATCTTTATT
GAAATGTTCCAGGGTCAACCTTTGTTTCCTGGGGTTTCCAACATCCTTGAACAGCTGGAG
AAAATCTGGGAGGTGCTGGGAGTCCCTACAGAGGATACTTGGCCGGGAGTCTCCAAGCTA
CCTAACTACAATCCAGAATGGTTCCCACTGCCTACGCCTCGAAGCCTTCATGTTGTCTGG
AACAGGCTGGGCAGGGTTCCTGAAGCTGAAGACCTGGCCTCCCAGATGCTAAAAGGCTTT
CCCAGAGACCGCGTCTCCGCCCAGGAAGCACTTGTTCATGATTATTTCAGCGCCCTGCCA
TCTCAGCTGTACCAGCTTCCTGATGAGGAGTCTTTGTTTACAGTTTCAGGAGTGAGGCTA
AAGCCAGAAATGTGTGACCTTTTGGCCTCCTACCAGAAAGGTCACCACCCAGCCCAGTTT
AGCAAATGCTGGTGA

Clone variation with respect to NM_139158.1
242 a=>w;243 a=>r

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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_139158 unedited
ACCGCCGTCTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA
ACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGAGGAGTCCCCAGAG
AGGCAGGAGGAAAACCAAGGAAGTGCCCACTTCACAGAATCAAGGAGGCTTTCAAAAAGGGTGGCATGAT
TATGGTGTTAAATGCCACCAAAGAGTAAAGCAAGGACTCTTGCTCTGTCACCCAGTCTGAAGTGCTGTGG
CGCAACCATGGCTCTATGCAGCCTTGACCTCCTGAACTCAAGCAATTGTCCCTGCCTCAGCCTTCCCAGT
TGCTGGGACCGCGGCTGCCTCGTTTTCAGTTTGTGCACATCTGATTGCCAAGCAATCCCGGTCTGAGGTG
GAAGTTTCTTGCACTGATAAGGAAAAACTGCTGAGGTTGTGAGGCTGCTCCAAGGCCGAAGCATCATCCT
ACCGGACTAAAAAGAAGGCTCATGGTTCCAGAGACTTCATTTACCCAAGGGAATCTTAAGCCGCGCCCTG
TGCCAGAAATTTCAGAGAGTAAAAGGCACAGGGATATAACGTGTGATGTGTTTTCGAGAAGAGTCTCGAG
GCACAGGTTTCAGTGGGGCGGAAGGGGAGACCCTCCTTTGGGCGCGCCCTCATCTCTTTAGATTTGGAAG
ACTGTTGAAGCGCTCTTGCGCAGTTTCACAGGGGTATCACAGAATAGGCACTCTGTGTCTATAGTGTCTC
ACGATGCCAGAGAGTCTCTATACTTCCAAGCTTCTCTCGAGGTTGAATGCACATGGTGCTGCGTGGATAT
ACCACAGACCTCGATCTCGGTTGATCGACGAACTGCAAATTCATCAGGCTTCTATGGCACTAGTGACATC
GGCTGCATCCACAGCGTAAGAACGAACTGACATCCCTA

Kinase Domain Sequence:

>SC323695 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation
CTCGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA
GAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGAGGAGTCCCCAGAGAGGCAGG
AGGAAAACCAAGGAAGTGCCCACTTCACAGAATCAAGGAGGCTTTCAAAAAGGGTGGCATGATTATGGTG
TTAAATGCCACCAAAGAGTAAAGCAAGGATCTTGCTCTGTCACCC

Restriction Sites: Please inquire

ACCN: NM_139158

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 kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.

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_139158.1, NP_631897.1

RefSeq Size: 1534 bp

RefSeq ORF:	1155 bp
Locus ID:	65061
UniProt ID:	Q96Q40
Cytogenetics:	2q33.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Serine/threonine-protein kinase that acts like an antiapoptotic protein that counters TRAIL/TNFSF10-induced apoptosis by inducing phosphorylation of BIRC5 at 'Thr-34'. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) has an alternate in-frame 5' exon and initiates translation at an upstream AUG compared to variant 1. This results in a shorter protein (isoform 3) with a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.