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 SC108880

ANKRD15 (KANK1) (NM_153186) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD15 (KANK1) (NM_153186) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANKRD15
Synonyms:	ANKRD15; CPSQ2; KANK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_153186 edited
ATGGAGACCCGGAGAAGACTGGAACAGGAGAGAGCCACCATGCAGATGACACCGGGTGAG
TTCAGAAGGCCCAGGCTGGCCAGTTTTGGAGGCATGGGCACCACAAGCTCCCTCCCTTCT
TTTGTGGGTTCTGGAAACCACAATCCTGCCAAGCACCAGCTTCAGAATGGATACCAAGGT
AATGGGGATTATGGTAGCTATGCCCCAGCTGCTCCCACCACTTCCTCCATGGGGAGCTCC
ATCCGCCACAGCCCCCTGAGCTCAGGGATCTCCACCCCAGTGACCAACGTGAGCCCCATG
CACCTGCAGCACATCCGCGAGCAGATGGCCATTGCTCTGAAACGCCTGAAGGAGCTGGAG
GAGCAGGTGCGAACCATCCCTGTGCTCCAGGTAAAGATCTCTGTCTTGCAAGAAGAGAAA
AGGCAGTTGGTCTCACAGCTGAAAAACCAAAGGGCTGCATCCCAGATCAATGTCTGTGGT
GTGAGGAAGCGGTCCTATAGTGCGGGGAACGCCTCCCAGCTGGAACAGCTCTCCCGGGCC
CGAAGAAGTGGCGGGGAATTATACATTGACTATGAGGAGGAAGAAATGGAGACCGTAGAA
CAGAGCACGCAGAGGATAAAGGAGTTCCGGCAACTTACAGCAGACATGCAAGCCCTGGAG
CAGAAGATCCAGGACAGCAGCTGTGAGGCCTCCTCAGAGCTCAGGGAGAATGGAGAGTGC
CGGTCTGTGGCTGTGGGTGCCGAGGAGAACATGAACGACATCGTCGTGTACCACAGAGGC
TCCAGGTCCTGTAAGGATGCAGCTGTAGGGACACTTGTTGAGATGAGAAATTGTGGGGTC
AGCGTGACAGAGGCCATGCTTGGAGTGATGACTGAAGCTGACAAAGAAATTGAGCTGCAA
CAGCAGACCATAGAATCCTTGAAGGAAAAGATCTATCGCCTAGAAGTACAGCTTAGAGAA
ACCACCCATGACCGGGAGATGACTAAACTGAAACAAGAGCTGCAGGCTGCTGGATCGAGG
AAAAAGGTTGACAAAGCCACGATGGCCCAGCCGCTTGTTTTCAGTAAGGTGGTGGAGGCA
GTGGTGCAGACCAGAGACCAAATGGTCGGCAGTCACATGGACCTGGTGGACACGTGTGTT
GGGACCTCCGTGGAAACAAACAGTGTAGGCATCTCCTGCCAGCCTGAATGTAAGAATAAA
GTCGTAGGGCCTGAGCTGCCTATGAATTGGTGGATTGTTAAGGAGAGGGTGGAAATGCAT
GACCGATGTGCTGGGAGGTCTGTGGAAATGTGTGACAAGAGTGTGAGTGTGGAAGTCAGC
GTCTGCGAAACAGGCAGCAACACAGAGGAGTCTGTGAACGACCTCACACTCCTCAAGACA
AACTTGAATCTCAAAGAAGTGCGGTCTATCGGTTGTGGAGATTGTTCTGTTGACGTGACC
GTCTGCTCTCCAAAGGAGTGCGCCTCCCGGGGCGTGAACACTGAGGCTGTTAGCCAGGTG
GAAGCTGCCGTCATGGCAGTGCCTCGTACTGCAGACCAGGACACTAGCACAGATTTGGAA

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CAGGTGCACCAGTTCACCAACACCGAGACGGCCACCCTCATAGAGTCCTGCACCAACACT
TGTCTAAGCACTTTGGACAAGCAGACCAGCACCCAGACTGTGGAGACGCGGACAGTAGCT
GTAGGAGAAGGCCGTGTCAAGGACATCAACTCCTCCACCAAGACGCGGTCCATTGGTGTT
GGAACGTTGCTTTCTGGCCATTCTGGGTTTGACAGGCCATCAGCTGTGAAGACCAAAGAG
TCAGGTGTGGGGCAGATAAATATTAACGACAACTATCTGGTTGGTCTCAAAATGAGGACT
ATAGCTTGTGGGCCACCACAGTTGACTGTGGGGCTGACAGCCAGCAGAAGGAGCGTGGGG
GTTGGGGATGACCCTGTAGGGGAATCTCTGGAGAACCCCCAGCCTCAAGCTCCACTTGGA
ATGATGACTGGCCTGGATCACTACATTGAGCGTATCCAGAAGCTGCTGGCAGAACAGCAG
ACACTGCTGGCTGAGAACTACAGTGAACTGGCAGAAGCTTTCGGGGAACCTCACTCACAG
ATGGGCTCCCTCAACTCTCAGCTCATCAGCACCCTGTCGTCTATCAACTCTGTCATGAAA
TCTGCAAGCACTGAAGAGCTGAGGAACCCTGACTTCCAGAAAACCAGTCTGGGTAAAATC
ACAGGCAATTATTTGGGATATACCTGTAAGTGTGGGGGCCTTCAGTCAGGAAGTCCCTTA
AGCTCCCAGACATCCCAGCCTGAGCAAGAAGTGGGGACCTCAGAAGGAAAGCCAATCAGC
AGCCTGGATGCCTTCCCCACTCAGGAAGGTACGCTGTCTCCAGTGAACCTGACAGACGAC
CAGATCGCCGCTGGCCTCTATGCATGTACAAACAATGAAAGTACACTGAAGTCCATCATG
AAGAAGAAAGATGGTAACAAAGATTCAAATGGCGCAAAAAAGAATCTTCAGTTTGTTGGC
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TCCGAGTCAGATGACGAGTGTGATGTCATTGAGTATCCTCTTGAAGAAGAGGAGGAGGAG
GAGGATGAAGACACTCGGGGAATGGCAGAAGGGCACCATGCAGTTAATATTGAAGGTTTG
AAGTCTGCCAGGGTGGAAGATGAAATGCAGGTTCAAGAATGTGAACCTGAGAAGGTGGAA
ATCAGAGAGAGGTATGAATTAAGTGAAAAGATGTTGTCTGCATGCAACTTACTGAAAAAT
ACTATAAATGACCCCAAAGCTTTGACCAGCAAAGATATGAGGTTCTGTCTGAACACCGTC
CAGCACGAGTGGTTCCGCGTGTCCAGTCAGAAGTCAGCCATTCCAGCCATGGTGGGGGAC
TACATAGCTGCTTTTGAGGCCATTTCCCCAGATGTCCTCCGCTATGTCATCAACTTGGCA
GACGGCAACGGCAACACAGCCCTCCATTACAGCGTGTCCCACTCCAACTTCGAGATTGTG
AAGCTGCTGTTAGATGCCGATGTGTGTAATGTGGATCACCAGAACAAGGCAGGCTACACC
CCCATCATGTTGGCGGCCCTCGCCGCTGTGGAAGCAGAGAAGGACATGCGGATTGTGGAA
GAACTCTTCGGCTGTGGGGATGTGAATGCCAAAGCTAGTCAGGCGGGACAGACGGCCCTC
ATGCTGGCGGTCAGTCACGGACGGATAGACATGGTGAAGGGCCTTCTGGCCTGTGGGGCT
GATGTCAACATCCAGGATGACGAGGGCTCCACGGCCCTCATGTGTGCCAGCGAGCACGGG
CACGTGGAGATTGTCAAGCTGCTGCTGGCCCAGCCCGGCTGCAACGGTCACCTAGAGGAC
AACGATGGCAGCACTGCGCTCTCAATCGCCCTGGAAGCAGGACACAAGGACATCGCTGTT
CTTCTGTATGCCCATGTCAACTTTGCAAAAGCCCAGTCTCCGGGCACCCCTAGGCTTGGA
AGGAAGACGTCTCCTGGCCCCACCCACCGAGGTTCATTTGATTGA

Restriction Sites: NotI-NotI

ACCN: NM_153186

Insert Size: 5100 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: no

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).

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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_153186.3, NP_694856.1

RefSeq Size: 5263 bp

RefSeq ORF: 3585 bp

Locus ID: 23189

UniProt ID: Q14678

Cytogenetics: 9p24.3

Domains: ANK

Gene Summary: The protein encoded by this gene belongs to the Kank family of proteins, which contain multiple ankyrin repeat domains. This family member functions in cytoskeleton formation by regulating actin polymerization. This gene is a candidate tumor suppressor for renal cell carcinoma. Mutations in this gene cause cerebral palsy spastic quadriplegic type 2, a central nervous system development disorder. A t(5;9) translocation results in fusion of the platelet-derived growth factor receptor beta gene (PDGFRB) on chromosome 5 with this gene in a myeloproliferative neoplasm featuring severe thrombocythemia. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 20. [provided by RefSeq, Dec 2014]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream in-frame start codon, compared to variant 1. The resulting isoform (b, also known as Kank-S) is shorter at the N-terminus, compared to isoform a.

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