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Product datasheet for SC124508

KRIT1 (NM_194456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KRIT1 (NM_194456) Human Untagged Clone
Tag:	Tag Free
Symbol:	KRIT1
Synonyms:	CAM; CCM1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_194456, the custom clone sequence may differ by one or more nucleotides

ATGGGAAATCCAGAAAACATAGAAGATGCATATGTTGCTGTTATTCGTCCAAAGAATACTGCCAGTCTCA
ATTCTCGGGAATACAGAGCTAAGTCATATGAAATTTTGTTGCATGAAGTTCCCATTGAAGGACAGAAAAA
AAAGAGAAAGAAAGTTTTATTGGAAACGAAACTTCAAGGCAACAGTGAAATAACACAAGGCATATTGGAT
TACGTAGTAGAAACCACCAAACCAATTTCTCCTGCAAACCAGGGTATCAGAGGAAAACGAGTTGTACTAA
TGAAAAAATTTCCTCTGGATGGAGAGAAGATGGGCAGAGAAGCATCATTATTTATTGTTCCATCAGTTGT
CAAAGATAATACTAAATACACATATACCCCAGGATGCCCAATTTTTTACTGCTTACAAGATATTATGCGA
GTCTGTAGTGAATCCAGTACTCATTTTGCTACACTTACAGCAAGGATGTTAATAGCCTTGGATAAGTGGT
TAGATGAACGTCATGCACAATCTCACTTTATTCCAGCTTTATTCCGACCTTCTCCTCTTGAGCGGATAAA
AACTAATGTCATAAATCCTGCATATGCTACTGAATCAGGTCAGACAGAAAACTCACTACATATGGGCTAT
AGTGCACTAGAAATAAAGAGTAAAATGTTAGCCCTAGAGAAAGCAGATACCTGTATTTACAACCCTTTGT
TTGGATCAGATCTTCAGTATACAAATCGGGTAGATAAAGTGGTAATAAATCCATACTTTGGTCTAGGAGC
TCCAGACTACTCAAAAATCCAAATACCTAAACAGGAAAAATGGCAGAGAAGCATGAGCAGTGTCACAGAA
GACAAGGAACGACAGTGGGTAGATGATTTTCCTCTCCACCGAAGCGCCTGTGAAGGAGATTCAGAATTAC
TAAGCCGTCTTCTCAGTGAAAGATTTTCAGTCAACCAGTTAGATAGTGACCACTGGGCACCCATTCATTA
TGCATGCTGGTATGGAAAAGTTGAGGCCACTCGCATATTGTTAGAGAAAGGAAAGTGCAATCCAAACCTT
TTAAATGGACAACTTAGTTCTCCTCTTCATTTTGCTGCTGGAGGAGGACATGCTGAAATAGTACAGATTC
TCCTAAACCACCCAGAAACGGATAGACATATAACAGACCAACAAGGAAGATCTCCATTAAATATTTGTGA
AGAAAACAAACAAAACAACTGGGAAGAAGCTGCAAAATTGTTGAAGGAAGCAATTAACAAACCATATGAA
AAAGTTCGAATATACAGAATGGATGGGTCATATCGTTCTGTTGAATTGAAGCATGGAAATAATACCACAG
TGCAGCAGATAATGGAAGGAATGCGTCTCTCTCAAGAAACTCAGCAATATTTCACTATATGGATTTGTTC
AGAAAACCTCAGCCTTCAACTCAAACCATATCATAAACCCTTGCAACATGTTCGTGACTGGCCAGAAATA
CTTGCTGAATTGACTAATCTGGATCCTCAAAGGGAAACACCTCAGCTTTTTCTAAGAAGAGATGTGAGAC
TTCCCTTGGAAGTTGAAAAACAGATTGAAGACCCACTAGCTATTCTTATTCTCTTTGATGAAGCCAGATA
TAATTTATTGAAGGGCTTTTATACAGCTCCTGATGCTAAGCTGATAACATTGGCAAGTCTGCTTTTGCAA
ATAGTCTATGGAAATTATGAGAGTAAAAAACACAAGCAAGGTTTCCTAAATGAAGAAAATCTAAAATCCA
TCGTACCTGTTACCAAACTGAAAAGTAAGGCACCTCACTGGACAAATCGCATACTTCATGAATACAAGAA
TCTCAGTACAAGTGAAGGTGTCAGTAAAGAAATGCATCACCTTCAGCGCATGTTCTTACAGAATTGCTGG
GAAATTCCTACTTATGGAGCAGCATTTTTCACAGGACAGATATTTACAAAGGCAAGCCCCAGCAATCATA
AAGTCATCCCTGTGTATGTAGGAGTGAATATAAAAGGACTTCATCTCCTCAACATGGAAACTAAGGCTTT
ACTCATCAGTCTTAAGTATGGTTGTTTTATGTGGCAATTGGGAGATACTGATACTTGTTTTCAGATCCAT
AGCATGGAAAATAAAATGAGCTTTATAGTACATACAAAACAGGCTGGTCTCGTGGTAAAACTGTTAATGA
AGCTAAATGGACAGTTAATGCCCACTGAAAGAAATTCATGA

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_194456 unedited
TAATACGACTCACTATAGGGCGGCCGCGAATCGGCACGAGGCCTCGTGCCGAATTCGGCA
CGAGCGGTTTTTGGCTTTCATCGCTTTTTCTACATGTTTTTAGCCTCACCAGAAGTCTTT
CATCTCGGTGGTCCAACTCAGGATCTCAGCCTCATTATTTTCTTACCCTTCTGGAGTGCA
TATGTGCCTTTACAGTTTCTGTTTGCAAACGCTGTCTAGCATACTAAGAGGATGTTAGCA
AACCTGTTCCATGGACACTAAATGGCAGTTGTACATCTCCCCTCATCAGTCATAGTGACA
ACCAGAAATGCCCTCCATATTTTCCAGTGATCCCAGTCTTCAATGCGTCTGTCTCATAAT
TTGTAAACGTTTATTATCTTGAAGTCATTGTTAATCTGTGGTGAAAAGTAATTGCTAAAT
AGAAATTCTGAGAAGAAAAAGGCCTCATCCTTTTCACATGATGTAGGAAGGTCTGTTGCA
TGAGCAATGGGAAATCCAGAAAACATAGAAGATGCATATGTTGCTGTTATTCGTCCAAAG
AATACTGCCAGTCTCAATTCTCGGGAATACAGAGCTAAGTCATATGAAATTTTGTTGCAT
GAAGTTCCCATTGAAGGACAGAAAAAAAAGAGATAGAAAGTTTTATTGGAAACGAAACTT
CAAGGCAACAGTGAAATAACACAAGGCATATTGGATTACGTAGTANAAACCACCAAACCA
ATTTTCTTCTGCANACCCANGGTATCAGAGGANAACGAGNNTGTACTAATGAAANNAATT
TCCTCTGGNATGGAGAGAAGATGGGCANAGNAACATCATTATTTATTGGTCCCATCAGTG
CAAAGATATACTAANTACACTATACCCCAGATGCCCATTTTTTACTGCTACAAGAATATG
GCAGTCTGTATGGAATCAGACTCATTTGT
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Restriction Sites: NotI-NotI

ACCN: NM_194456

Insert Size: 3100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_194456.1, NP_919438.1

RefSeq Size: 4762 bp

RefSeq ORF:	2211 bp
Locus ID:	889
UniProt ID:	O00522
Cytogenetics:	7q21.2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a protein containing four ankyrin repeats, a band 4.1/ezrin/radixin/moesin (FERM) domain, and multiple NPXY sequences. The encoded protein is localized in the nucleus and cytoplasm. It binds to integrin cytoplasmic domain-associated protein-1 alpha (ICAP1alpha), and plays a critical role in beta1-integrin-mediated cell proliferation. It associates with junction proteins and RAS-related protein 1A (Rap1A), which requires the encoded protein for maintaining the integrity of endothelial junctions. It is also a microtubule-associated protein and may play a role in microtubule targeting. Mutations in this gene result in cerebral cavernous malformations. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2009] Transcript Variant: This variant (1) includes 4 exons in the 5' UTR. Variants 1-4 encode the same isoform (1).