

## Product datasheet for **SC124507**

### **KRIT1 (NM\_194455) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KRIT1 (NM_194455) Human Untagged Clone
Tag:	Tag Free
Symbol:	KRIT1
Synonyms:	CAM; CCM1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_194455, the custom clone sequence may differ by one or more nucleotides

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ATGGGAAATCCAGAAAACATAGAAGATGCATATGTTGCTGTTATTCGTCCAAGAATACTGCCAGTCTCA
ATTCTCGGAATACAGAGCTAAGTCATATGAAATTTTGTGCATGAAGTCCCATTGAAGGACAGAAAA
AAAGAGAAAGAAAGTTTTATTGGAAACGAAACTTCAAGGCAACAGTGAAATAACACAAGGCATATTGGAT
TACGTAGTAGAAACCACCAACCAATTTCTCTGCAAACCAGGGTATCAGAGGAAAACGAGTTGACTAA
TGAAAAAATTTCTCTGGATGGAGAGAAGATGGGCAGAGAAGCATCATTATTTATTGTTCCATCAGTTGT
CAAAGATAACTAAATACACATATACCCAGGATGCCCAATTTTTTACTGCTTACAAGATATTATGCGA
GTCTGTAGTGAATCCAGTACTCATTGCTACACTTACAGCAAGGATGTTAATAGCCTTGGATAAGTGGT
TAGATGAACGTCATGCACAATCTCACTTTATTCCAGCTTTATTCCGACCTTCTCTCTTGAGCGGATAAA
AACTAATGTCATAAATCCTGCATATGCTACTGAATCAGGTGAGACAGAAAACACTACTACATATGGGCTAT
AGTGCCTAGAAAATAAGAGTAAAATGTTAGCCCTAGAGAAAGCAGATACCTGTATTTACAACCCTTTGT
TTGGATCAGATCTTCAGTATACAAATCGGGTAGATAAAGTGGTAATAAATCCATACTTTGGTCTAGGAGC
TCCAGACTACTCAAAAATCCAAATACCTAACAGGAAAAATGGCAGAGAAGCATGAGCAGTGTACAGAA
GACAAGGAACGACAGTGGGTAGATGATTTTCTCTCCACCGAAGCGCCTGTGAAGGAGATTCAGAATTAC
TAAGCCGTCTTCTCAGTGAAAGATTTTTCAGTCAACCAGTTAGATAGTGACCACTGGGCACCCATTTCATTA
TGCATGCTGGTATGGAAAAGTTGAGGCCACTCGCATATTGTTAGAGAAAGGAAAGTGAATCCAAACCTT
TTAAATGGACAACCTAGTTCTCTCTTCATTTTGTCTGTTGAGGAGGACATGCTGAAATAGTACAGATTC
TCCTAAACCACCCAGAAACGGATAGACATATAACAGACCAACAAGGAAGATCTCCATTAATATTTGTGA
AGAAAACAAACAAAACAACTGGGAAGAAGCTGCAAAATTTGTTGAAGGAAGCAATTAACAAACCATATGAA
AAAGTTTGAATATACAGAATGGATGGGTCATATCGTTCTGTTGAATTGAAGCATGGAAATAATACCACAG
TGCAGCAGATAATGGAAGGAATGCGTCTCTCAAGAACTCAGCAATATTTCACTATATGGATTTGTTT
AGAAAACCTCAGCCTTCAACTCAAACCATATCATAAACCTTGAACATGTTCTGACTGCCAGAAATA
CTTGCTGAATTGACTAATCTGGATCCTCAAAGGAAACACCTCAGCTTTTTCTAAGAAGAGATGTGAGAC
TTCCCTTGAAGTTGAAAACAGATTGAAGACCCACTAGCTATTCTTATTCTTTGATGAAGCCAGATA
TAATTTATTGAAGGGCTTTTATACAGCTCCTGATGCTAAGCTGATAACATTGGCAAGTCTGCTTTTGCAA
ATAGTCTATGGAAATTATGAGAGTAAAAACACAAGCAAGGTTTCTAAATGAAGAAAATCTAAAATCCA
TCGTACCTGTTACCAAAGTAAAAGTAAGGCACCTCACTGGACAATCGCATACTTCATGAATACAAGAA
TCTCAGTACAAGTGAAGGTGTCAGTAAAGAAATGCATCACCTTCCAGCGCATGTTCTTACAGAATTGCTGG
GAAATTCCTACTTATGGAGCAGCATTTTTCACAGGACAGATATTTACAAAGGCAAGCCCCAGCAATCATA
AAGTCATCCCTGTGTATGTAGGAGTGAATATAAAAGGACTTCATCTCTCAACATGGAAACTAAGGCTTT
ACTCATCAGTCTTAAGTATGGTTGTTTTATGTGGCAATTGGGAGATACTGATACTTGTTTTCAGATCCAT
AGCATGGAAAAATAAATGAGCTTTATAGTACATACAAAACAGGCTGGTCTCGTGGTAAAACCTGTTAATGA
AGCTAAATGGACAGTTAATGCCCACTGAAAGAAATTCATGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_194455 unedited TTATACGACTCACTTATAGGGCGGCCGCGATTCCGGCACGAGATTTGTAACGTTTATTAT CTTGAAGTCATTGTTAATCTGTGGTGAAAAGTAATTGCTAAATAGAAATCTGAGAAGAA AAAGGCCCTCATCCTTTTTCACATGATGTAGGAAGGTCTGTTGCATGAGCAATGGGAAATCC AGAAAAACATAGAAGATGCATATGTTGCTGTTATTCGTCCAAGAATACTGCCAGTCTCAA TTCTCGGGAATACAGAGCTAAGTCATATGAAATTTTGTTCATGAAGTTCCCATTTGAAGG ACAGAAAAAAGAGAAAAGAAAGTTTTATTGAAACGAAACTTCAAGGCAACAGTGAAAT AACACAAGGCATATTGGATTACGTAGTAGAAACCACAAACCAATTTCTCCTGCAAACCA GGGTATCAGAGGAAAACGAGTTGTAATAATGAAAAATTTCTCTGGATGGAGAGAAGAT GGGCAGAGAAGCATCATTATTTATTGTTCCATCAGTTGTCAAAGATAATACTAAATACAC ATATACCCAGGATGCCCAATTTTTTACTGCTTACAAGATATTATGCGAGTCTGTAGTG AATCCAGTACTCATTNTGCTACACTTACAGNCAGGATGTTAATAGCCTTGGATAAGTGGT TAGATGAACGTCATGCACAATCTCACTTTATTCCAGCTNTATTCCGACCTTCTNCTCTTG AGCGGGATAAAACTAATGTCATAAATCCTGCATATGCTACTGAATCANGTCAGACAGAAN ACTCACTACATATGGGNTATAGTGCCTAGAAAATAAGAGTAAATGNTAGCCCTAGAGAA GCAGATACCTGTATTACAACCTTTGNTNGATCAGATCTCAGATACAATCGGTAGATAAGT GGTATAAATCTACTTGGNCTAGAGCTCAACTCTCAAATCCATACCTACAGAAAATGCNAN AACTGACNTGTCAAAAANGACAACCTGGNNTAAGATTTNCTTACGANCGCTGNANGAAA TCAATNCTAGCGCTTTCANGAAGATTTTCGCACGNTAAATGCCCTGGCCCATCTTGCTCTG TATGAAGTAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_194455
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_194455.1</a></u> , <u><a href="#">NP_919437.1</a></u>
<b>RefSeq Size:</b>	4997 bp
<b>RefSeq ORF:</b>	2211 bp
<b>Locus ID:</b>	889
<b>UniProt ID:</b>	<u><a href="#">O00522</a></u>
<b>Cytogenetics:</b>	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 (4) has 2 alternate exons in the 5' UTR, as compared to variant 1. Variants 1-4 encode the same isoform (1).