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Product datasheet for MC224016

Cand1 (NM_027994) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cand1 (NM_027994) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cand1
Synonyms:	2310038O07Rik; 6330512O03Rik; AI195005; AI846556; D10Ertd516e; mKIAA0829; Tp120a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224016 representing NM_027994
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAGCGCTTCGTACCACATCTCCAACTTGCTGGAGAAAATGACATCCAGCGACAAGGACTTCAGGT
TCATGGCGACCAACGACCTGATGACAGAGCTGCAGAAAGACTCTATCAAGCTGGACGATGACAGCGAGAG
GAAAGTTGTGAAGATGATTCTCAGGTTGCTGGAGGATAAAAATGGCGAAGTGCAGAACTTAGCTGTCAAA
TGCCTTGGCCCTTTGGTGAGTAAAGTGAAAGAGTACCAAGTGGAGACGATCGTGGACACCCTCTGCACCA
ACATGCTTTCTGACAAGGAGCAGCTGCGAGACATTTCCAGCATCGGCCTGAAAACAGTAATTGGAGAACT
TCCGCCAGCTTCCAGTGGCTCTGCATTAGCTGCTAATGTATGTAAAAAGATTACTGGACGCCTTACCAGT
GCAATAGCAAAGCAGGAAGATGTTTCTGTTCAGCTCGAAGCCTTGGATATCATGGCTGACATGTTGAGCA
GGCAAGGAGGACTGCTTGTTAATTTCCACCCTTCAATTCTGACCTGTCTGCTTCCCCAGCTGACCAGCCC
TAGACTTGCAGTGAGGAAAAGAACAATTATTGCTCTTGGCCACCTAGTTATGAGCTGCGGAAATATAGTT
TTTGTAGACCTTATTGAACATCTGTTGTCAGAGTTGTCCAAAAATGACTCCATGTCAACAACAAGGACCT
ACATACAGTGTATTGCTGCTATTAGTAGGCAAGCTGGCCATAGAATAGGTGAATACCTTGAAAAGATAAT
TCCTTTGGTGGTAAAATTTTGTAATGTAGATGATGATGAATTAAGAGAATACTGCATTCAAGCTTTTGAA
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TGGGGACGACGATGACCAAGGGAGTGACGATGAATATAGTGACGATGACGACATGAGTTGGAAAGTGAGA
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AAGAGAAGAGTGTGAAGACCCGACAGTGTTGCTTTAACATGTTAACTGAGCTGGTAAATGTGCTGCCGGG
AGCACTAACCCAGCACATTCCTGTACTGGTACCAGGAATCATTTTCTCACTGAATGATAAGTCCAGCTCA
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TCAAACCTGAAGATTGATGCGCTGTCGTGTCTGTATGTCATCCTCTGTAACCACTCTCCTCAAGTTTTCC
ATCCTCATGTTCAGGCTCTGGTCCCTCCGGTGGTGGCCTGTGTGGGAGACCCGTTTTACAAGATCACTTC
AGAAGCCCTTCTTGTCACTCAGCAGCTTGTCAAAGTGATCCGTCCTCTAGACCAGCCCTCTTCGTTCGAT
GCAACGCCTTACATCAAAGATCTCTTCACCTGCACAATTAAGCGCTTAAAAGCAGCTGACATTGATCAAG
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GCGCTGACCCTGATTGCTGGGTCACCTTTGAAGATAGATCTGAGGCCTGTGCTGGGAGAGGGAGTCCCCA
TCCTTGCTTCATTCCTCAGGAAAAATCAGAGAGCTTTGAAACTGGGGACCCTCTCTGCCCTGGATATTCT
CATTAAGAACTACAGTGACAGCCTGACGGCCGCCATGATTGACGCAGTTCTGGATGAGCTCCCCCCCCTC
ATCAGCGAGAGCGATATGCACGTGTCGCAGATGGCTATCAGCTTCCTCACCACCCTGGCCAAGGTCTATC
CCTCCTCCCTGTCCAAGATAAGCGGATCTATCCTCAATGAACTGATTGGACTTGTGAGATCGCCTCTACT
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AGTAGGTCAGTTTATTCAAGATGTCAAGAACTCAAGGTCTACAGATTCCATTCGTCTCTTAGCACTCCTT
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CTTTCTCATCCCCTAGTGAAGAAGTCAAATCAGCTGCGTCCTATGCATTAGGCAGCATTAGTGTAGGCAA
CCTTCCTGAGTATCTGCCCTTTGTACTGCAAGAAATAACCAGCCAGCCCAAAAGGCAGTATCTTCTGCTT
CACTCTTTGAAGGAGATCATTAGCTCTGCATCGGTGGCAGGCCTTAAGCCATATGTTGAGAACATCTGGG
CCTTGCTGCTAAAGCACTGTGAGTGTGCGGAGGAAGGCACCAGGAATGTCGTGGCTGAATGTCTAGGGAA
GCTCACTCTTATTGATCCTGAAACTCTCCTCCCACGGCTTAAAGGGTATTTGATATCAGGGTCATCATAT
GCCAGGAGCTCGGTGGTTACAGCTGTGAAGTTCACGATTTCTGATCATCCTCAGCCTATTGATCCACTGT
TGAAGAACTGCATAGGTGACTTTCTAAAAACTTTGGAAGACCCAGATTTGAACGTAAGAAGAGTGGCCTT
GGTCACATTCAATTCTGCGGCCCATAACAAGCCATCACTGATACGGGACCTTCTGGACTCAGTTCTTCCA
CATCTTTACAATGAGACAAAAGTTAGGAAGGAACTTATAAGAGAGGTAGAAATGGGTCCATTTAAACACA
CGGTTGATGACGGTCTAGACATTAGAAAGGCAGCTTTTGAGTGTATGTATACACTTCTAGACAGCTGTCT
TGATAGACTGGATATCTTTGAATTTCTAAATCATGTTGAAGATGGTTTGAAGGACCATTATGATATTAAG
ATGCTAACATTTTTAATGTTGGTACGACTGTCTACCCTCTGTCCAAGTGCAGTACTACAAAGGCTGGACC
GACTTGTTGAGCCACTGCGTGCTACGTGTACAACTAAGGTAAAGGCAAACTCTGTAAAGCAGGAGTTTGA
AAAGCAAGATGAGCTAAAGCGGTCTGCCATGAGGGCAGTGGCGGCTTTGTTAACCATTCCAGAGGCAGAG
AAGAGCCCTCTTATGAGTGAATTCCAGTCACAGATCAGCTCCAACCCGGAGCTGGCAGCCATCTTTGAAA
GTATCCAGAAAGATTCTTCGTCCACCAACTTGGAATCAATGGACACGAGTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_027994

Insert Size: 3693 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).

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_027994.1, NP_082270.1
RefSeq Size:	8209 bp
RefSeq ORF:	3693 bp
Locus ID:	71902
UniProt ID:	Q6ZQ38
Cytogenetics:	10 67.08 cM
Gene Summary:	Key assembly factor of SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complexes that promotes the exchange of the substrate-recognition F-box subunit in SCF complexes, thereby playing a key role in the cellular repertoire of SCF complexes. Acts as a F-box protein exchange factor. The exchange activity of CAND1 is coupled with cycles of neddylation conjugation: in the deneddylated state, cullin-binding CAND1 binds CUL1-RBX1, increasing dissociation of the SCF complex and promoting exchange of the F-box protein. Probably plays a similar role in other cullin-RING E3 ubiquitin ligase complexes (By similarity). [UniProtKB/Swiss-Prot Function]

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