

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
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224016 representing NM_027994
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCGCTTCGTACCACATCTCCAACCTGCTGGAGAAAATGACATCCAGCGACAAGGACTTCAGGT
TCATGGCGACCAACGACCTGATGACAGAGCTGCAGAAAGACTCTATCAAGCTGGACGATGACAGCGAGAG
GAAAGTTGTGAAGATGATTCTCAGTTGCTGGAGGATAAAAATGGCGAAGTGCAGAACTTAGCTGTCAA
TGCCCTTGCCCTTTGGTGAGTAAAGTAAAAGAGTACCAAGTGGAGACGATCGTGGACACCCTCTGCACCA
ACATGCTTTCTGACAAGGAGCAGCTGCGAGACATTTCCAGCATCGGCCTGAAAACAGTAATTGGAGAACT
TCCGCCAGCTTCCAGTGGCTCTGCATTAGCTGCTAATGTATGTA AAAAGATTACTGGACGCCCTTACCAGT
GCAATAGCAAAGCAGGAAGATGTTTCTGTTTCAGCTCGAAGCCTTGATATCATGGCTGACATGTTGAGCA
GGCAAGGAGGACTGCTTGTAAATTTCCACCCTCAATTCTGACCTGTCTGCTTCCCAGCTGACCAGCCC
TAGACTTGCAAGTGAAGAAAAGAACAATTATTGCTCTTGGCCACCTAGTTATGAGCTGCGGAAATATAGTT
TTTGTAGACCTTATTGAACATCTGTTGTCAGAGTTGTCCAAAAATGACTCCATGTCAACAACAAGGACCT
ACATACAGTGTATTGCTGCTATTAGTAGCAAGCTGGCCATAGAATAGGTGAATACCTTGA AAAAGATAAT
TCCTTTGGTGGTAAAATTTGTAATGTAGATGATGATGAATTAAGAGAATACTGCATTCAAGCTTTTGAA
TCATTTGTGAGAAGATGCCCTAAAGAAGTTTATCCTCATGTTTCTACCATTATAAACATTTGTCTAAAAT
ACCTTACCTATGATCCAAATTACAATTACGATGATGAAGATGAAGATGAGAATGCTATGGATGCTGACGG
TGGGGACGACGATGACCAAGGGAGTGACGATGAATATAGTGACGATGACGACATGAGTTGGAAAAGTGA
CGCGCGGCTGCTAAGTGCCTGGACGCTGTAGTTAGCACACGGCATGAGATGCTCCCGAGTTCTACAAGA
CTGTCTCTCTGCGCTGATAGCCAGATTTAAAGAGCGGGAAGAAAATGTAAGGCCAGATGTTTTTCATGC
ATACCTGTCTCTTCTGAAACAACTCGTCCAGTGCAAAGTTGGCTGTGTGACCCTGACGCAATGGAGCAG
GGAGACACGCCCTAACAAATGCTGCAGAGTCAGGTTCCCAACATTGTTAAAGCCCTGCACAAGCAGATGA
AAGAGAAGAGTGTGAAGACCCGACAGTGTGCTTTAACATGTTAACTGAGCTGGTAAATGTGCTGCCGGG
AGCACTAACCCAGCACATTCCTGTACTGGTACCAGGAATCATTTTCTCACTGAATGATAAGTCCAGCTCA
TCAAACCTGAAGATTGATGCGCTGCTGTCTGTATGTCATCCTCTGTAACCACTCTCTCAAGTTTTC



ATCCTCATGTTTCAGGCTCTGGTCCCTCCGGTGGTGGCCTGTGTGGGAGACCCGTTTTACAAGACTCTTC
 AGAAGCCCTTCTTGTCACTCAGCAGCTTGTCAAAGTGATCCGTCCTCTAGACCAGCCCTCTTCGTTTCGAT
 GCAACGCCTTACATCAAAGATCTCTTCACTGCACAATTAAGCGCTTAAAAGCAGCTGACATTGATCAAG
 AAGTCAAGGAAAGGGCTATTTCCCTGTATGGGACAGATTATTTGCAATCTTGGAGACAATTTGGTCTCTGA
 TTTATCAAATACCTACAGATTTTCTTGGAGAGACTCAAGAATGAGATTACCCGGCTAACGACCGTCAAA
 GCGCTGACCTGATTGCTGGGTACCTTTGAAGATAGATCTGAGGCCTGTGCTGGGAGAGGAGTCCCA
 TCCTTGTTCATTCCCTCAGGAAAAATCAGAGAGCTTTGAAACTGGGGACCTCTCGCCCTGGATATTCT
 CATTAAAGAACTACAGTGACAGCCTGACGGCCGCCATGATTGACGAGTTCTGGATGAGCTCCCCCCTC
 ATCAGCGAGAGCGATATGCACGTGTCGACAGATGGCTATCAGTTCTCACCACCCTGGCCAAGGTCTATC
 CCTCCTCCCTGTCCAAGATAAGCGGATCTATCCTCAATGAACTGATTGGACTTGTGAGATCGCCTCTACT
 GCAGGGAGGAGCGCTCAGTGCCATGCTAGACTTTTTCCAAGCTCTGGTTGCTACTGGAACAAACAATCTA
 GGGTACATGGACTTGTGCGCATGCTAACGGTCCAGTTTATTCTCAGAGCACTGCTCTCACTCATAAGC
 AGTCTTATTATTCCATTGCCAAATGTGTAGTCCCTTACTCGAGCTTCCCTAAAGAGGGACCCGCGT
 AGTAGGTCAGTTTATTCAAGATGTCAAGAACTCAAGGTCTACAGATTCCATTCTGCTCTTAGCACTCCTT
 TCTCTTGAGAAGTTGGACACCATTGACTTAAAGTGGCAGTTGGAATTAATCTGTAATATTAGAGG
 CTTTCTCATCCCCTAGTGAAGAAGTCAAATCAGCTGCGTCTATGCATTAGGCAGCATTAGTGTAGGCAA
 CCTTCCTGAGTATCTGCCCTTGTACTGCAAGAAATAACCAGCCAGCCAAAAGGAGTATCTTCTGCTT
 CACTCTTTGAAGGAGATCATTAGCTCTGCATCGGTGGCAGGCCTTAAGCCATATGTTGAGAACATCTGGG
 CCTTGCTGCTAAAGCACTGTGAGTGTGCGGAGGAAGGCACCAGGAATGTCGTGGCTGAATGTCTAGGGAA
 GCTCACTCTTATTGATCTGAACTCTCCTCCCACGGCTTAAAGGGTATTTGATATCAGGGTCATCATAT
 GCCAGGAGCTCGGTGGTTACAGCTGTGAAGTTCACGATTTCTGATCATCCTCAGCCTATTGATCCACTGT
 TGAAGAACTGCATAGGTGACTTTCTAAAACTTTGGAAGACCCAGATTTGAACGTAAGAAGAGTGGCCTT
 GGTCACATTCATCTGCGGCCATAACAAGCCATCACTGATACGGGACCTTCTGGACTCAGTTCTTCCA
 CATCTTTACAATGAGACAAAAGTTAGGAAGGAACCTTATAAGAGAGGTAGAATGGGTCCATTTAAACACA
 CGTTGATGACGGTCTAGACATTAGAAAGCAGCTTTTGTAGTGTATGTATACACTTCTAGACAGCTGCT
 TGATAGACTGGATATCTTTGAATTTCTAAATCATGTTGAAGATGGTTTGAAGGACCATTATGATATTAAG
 ATGCTAACATTTTAAATGTTGGTACGACTGTCTACCCTCTGTCCAAGTGCAGTACTACAAAGGCTGGACC
 GACTTGTGAGCCACTGCGTGTACGTGTACAATAAGGTAAAGGCAAACCTGTAAAGCAGGAGTTTGA
 AAAGCAAGATGAGCTAAAGCGGTCTGCCATGAGGGCAGTGGCGGCTTTGTTAACCATTCCAGAGGCAGAG
 AAGAGCCCTCTTATGAGTGAATCCAGTCACAGATCAGCTCCAACCCGGAGCTGGCAGCCATCTTTGAAA
 GTATCCAGAAAGATTCTTCGTCCACCAACTTGAATCAATGGACACGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-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).

Reconstitution Method:	<ol style="list-style-type: none">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:	<u>NM_027994.1, NP_082270.1</u>
RefSeq Size:	8209 bp
RefSeq ORF:	3693 bp
Locus ID:	71902
UniProt ID:	<u>Q6ZQ38</u>
Cytogenetics:	10 67.08 cM
Gene Summary:	<p>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]</p>