

Product datasheet for **MC221394**

Cul4a (NM_146207) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul4a (NM_146207) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cul4a
Synonyms:	2810470J21Rik; AW495282
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221394 representing NM_146207
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGAGGGCCCTCGGAAGGGCAGCGTCTCGGCTCTCATGGGCCACCAACGGCCCTACCAAGC
 CCGCGCGCTTGGCCGGTGGCCCCGCAAGCCGGGGGCACGGGAGGCTCCAGGAAGCTGGTCATCAAGAA
 CTTCCGAGACAGGCCGGCTGCCTGACAACTACACTCAGGACACGTGGCGGAAGCTTCACGAAGCGGT
 AAGGCCATCCAGAGCAGCACATCCATCAGGTACAACCTGGAGGAGCTGTACCAGGCTGTTGAAAATCTTT
 GTTCTCACAAAGTCTCCCAACGCTCTACAAGCAGCTGCGCCAGGCTGTGAAGACCATGTCAGGCCCA
 GATCCTCCATTAGAGAAGACTCACTAGACAGCGTTTTATTTCTAAAGAAGATTAACACATGCTGGCAA
 GATCACTGCAGACAAATGATCATGATCAGAAGCATCTTCTGTTTCTGGATCGAACCTACGTCCTCCAGA
 ATTCATGCTGCCTTCTATCTGGGACATGGGCTAGAGCTGTTTAGGAACCACATCATCAGCGACAGGAT
 GGTGCAGAGTAAGACCATTGATGGGATCCTGCTGCTGATTGGGCGTGAACGAAGTGGAGAGGCTGTGGAC
 AGGAGTCTGCTTCGGAGTTTGCTAAGCATGCTCTCAGATCTCCAGGTGTACAAAGACTCATTGAGCTGA
 AGTTCTTGAAGAGACTAACTGTCTATACGCTGCTGAAGGCCAGAGGCTGATGCAGGACAGGGAGTTCC
 AGAATACCTTAACCATGTGAGCAAACGCTAGAAAGAGGAAGCAGACCGAGTGATCACCTACTTAGACCAC
 AGCACACAAAAACCGTTGATTGCCTGTGTGGAGAAACAGCTGTTAGGAGAACATTTGACAGCAATTTAC
 AGAAAGGCCTAGAGCACCTGCTGGATGAGAACAGGGTGCCTGACCTCACCCAGATGTACCAGCTCTTCAG
 CCGGGTGAAGGAGGGCAGCATGCGCTGCTGCAGCACTGGAGCGAGTACATCAAGACCTTTGGAACAACC
 ATTGTCATCAATCCTGAGAAAGACAAAGACATGGTCCAAGACCTGCTGGACTTTAAGGACAAAGTGGACC
 ACGTGGTGGAGGTGCTTCCAGAGGAACGAGCGCTTCACTAACCTGATGAAGGAGTCTTCGAGACGTT
 CATCAACAAGAGACCAAACAAGCCTGCAGAGCTCATTGCCAAGCAGCTGGACTCAAAGTTACGGGCCGGC
 AACAAAGAAGCCACAGATGAGGAACTGGAGAGGATCCTGGACAAGATCATGATTCTCTCCGTTTCATCC
 ATGGTAAAGATGTCTTTGAAGCGTTTTATAAGAAAGACTTAGCAAAAAGGCTGCTGGTGGGAAGAGCGC
 GTCGGTGGACGCGGAGAAGTCCATGCTGTGCAAGCTCAAGCACGAGTGGGAGCTGCGTTTACCAGCAAA
 CTGGAGGGCATGTTCAAGGACATGGAGCTCTCAAAGACATCATGGTCACTTCAAGCAGCATATGCAGA
 ACCAGAGTGCAGGCCCCATTGACCTCACGGTGAACATACTCACCATGGGCTACTGGCCACGTACAC
 ACCCATGGAAGTGCACCTCCCTCCAGAGATGGTCAGACTTCAGGAAGTATCAAGACGTTCTACCTGGGC
 AAGCACAGTGGGCGAAGCTGCAATGGCAGACAACGCTGGGACACGCCGTGCTGAAGGCGGACTTTAAGG
 AGGGGAAGAAGGAGTCCAGGTATCCCTCTTCCAGACGCTGGTGTGCTCATGTTCAACGAAGGGGATGG
 ATTTAGCTTTGAAGAAATAAAAATGGCCACTGGCATAGAGGACAGTGAGTTGCGAAGAACACTACAGTCT
 CTGGCCTGTGGTAAAGCACGGGTCTAATTAAGTCCCAAAGGAAAGGAGTGGAAAGTGGAGATAAGT
 TCATCTTCAATGCAGACTTCAAACACAAGTTGTTCCAGAAATAAGATCAATCAATCCAGATGAAGGAGAC
 CGTTGAAGAACAGGTTAGCACTACAGAGAGAGTATTCCAGGATAGACAGTACCAGATCGACGCTGCTATA
 GTCAGAATAATGAAAATGAGGAAGACACTTGGTCATAATCTTCTAGTTTCTGAATTATACAATCAGCTGA
 AATTTCCAGTGAAGCCTGGAGATTTGAAAAAAGGATTGAGTCACTTATAGACAGAGACTATATGGAACG
 AGACAAAGACAGTCCAAATCAGTACCACTACGTGGCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_146207
Insert Size: 2280 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:	NM_146207.2 , NP_666319.2
RefSeq Size:	3628 bp
RefSeq ORF:	2280 bp
Locus ID:	99375
UniProt ID:	Q3TCH7
Cytogenetics:	8 A1.1
Gene Summary:	<p>Core component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition component. DCX(DET1-COP1) directs ubiquitination of JUN. DCX(DDB2) directs ubiquitination of XPC. In association with RBX1, DDB1 and DDB2 is required for histone H3 and histone H4 ubiquitination in response to ultraviolet and may be important for subsequent DNA repair. DCX(DTL) plays a role in PCNA-dependent polyubiquitination of CDT1 and MDM2-dependent ubiquitination of TP53 in response to radiation-induced DNA damage and during DNA replication. In association with DDB1 and SKP2 probably is involved in ubiquitination of CDKN1B/p27kip. Is involved in ubiquitination of HOXA9. DCX(DTL) directs autoubiquitination of DTL (By similarity). The DDB1-CUL4A-DTL E3 ligase complex regulates the circadian clock function by mediating the ubiquitination and degradation of CRY1 (By similarity). With CUL4B, contributes to ribosome biogenesis (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>