

## Product datasheet for **MR210340**

### **Cttnal1 (NM\_018761) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cttnal1 (NM_018761) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cttnal1
Synonyms:	ACRP; AI616177; AW545119; C86009; Catnal1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210340 representing NM\_018761  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCCGCTTCTCCAGTCCCGGGCGGTGGCGGTGCGGGAGCTGTCCACTCCTCCAACCGCGTGGCTTCA  
CCTTCGACTCGGGACTGGAGATCAGGACGCGCTCGGTGGAACAGACTCTTCTGCCCTGGTTTCTCAGAT  
CACCACACTTATAAACCATAAAGATAATACCAAAAAGTCTGATAAAACCTGCAAGCGATTACAGCGTGTG  
GGACAAGCGGTCAACTTGGCAGTTGGAAGATTTGTTAAAGTAGGGGAAGCTATAGCCAACGAAAAGTGGG  
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AGCGGAGAGACCGACAGCTCATCTGTCAGCATTCTTACTGGGATTAAGAGTTGAAGGTGAATTTGAAG  
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TGTGGAGGACTTCACTGATTCTGCCTACACCAGCCACGAGCACAGGAACGGATCTTGGAGCTGTCTTCT  
CAGGCGAGGACAGAGCTGCAGCAGCTCCTTTCCGTGTGGATGCAAACCCAAAGCAGGAAGACAAAGAGCG  
CCGCCGAGGAGCTGGAAGTCTCAGATCTGAAGATCAGCCACAGCCTGGACGAGCTGAGGAGAGAATCCA  
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CCGTCTAGCAAAATCGCTAAGGAAAACCTGGATGTGTTTTGTGAAGCTTGGGAGTCTCAGATGAGTGACA  
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GCAGAGTAAAGTCTTTCTAAAGTTGACAAGTGTATTACAAAGATAAGATCCATGATGACTCTTGTGGTC  
CAGCTCCTCTCACTTTGCTATAAACTACTGAAGAAGATGGAAAATAACAGATGGGGCTCTGCGACGAACA  
AAGATACCATGGATGGTCAAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210340 representing NM\_018761  
Red=Cloning site Green=Tags(s)

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MAASPVPGGGGAGAVHSSNAAGFTFDSGLEIRTRSVEQTLPLVSIQITTLINHKDNTKKSDKTLQAIQRV
GQAVNLAVGRFVKVGEAIANENWDLKEEINIACIEAKQAGETIASLTDVTKRSHLESDGQVTILTDKTGV
VQAARLLLSSVTKVLLLADRVIKQIVTSRNKILATMERLEKVNVSFQEFVQIFSQFGNEMVEFAHLTGDR
QNDLKDEKKKARMAVARAVLEKGTMMLLTASKTCLRHPSCESAHTNKEGVFDRMRVALEKVTEIVTDCRL
SGETDSSSVSIFGTIKELKVNIEALRENVCFESKENLSAALEAVLEHVEDFTDSAYTSHEHRERILELSS
QARTELQQLLSVWMQTQSRKTKSAAEELELTVLKI SHSLDELRRRLHCTAMQLAADLLKFHADHVVLKAL
KVTGVEGNLEALAEYACKLSEQKEQLVETCRLLRHISGTEPLEITCIHAEETFQVTGQQIISAAETLTLH
PSSKIAKENLDVFCWESQMSDMATLLREISDVFEGRRGERCDDLSPKPTKNSANLKLKPKDPDSEE
QAKIAKLGKLLSSDADCEIEKWEDEENEIVRHGRNMSRMAYSLYLFTRGEGPLKTSQDLIHFLVEVFA
AEGKLTSSVQFSKQLKDDDKMLLLEINKLIPLCHQLQTITKTSLSQSVFLKVDKCITKIRSMMTLVV
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```

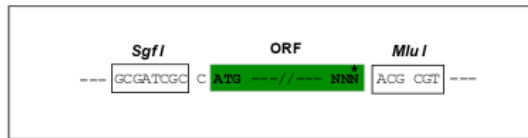
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9037\\_a08.zip](https://cdn.origene.com/chromatograms/mm9037_a08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018761

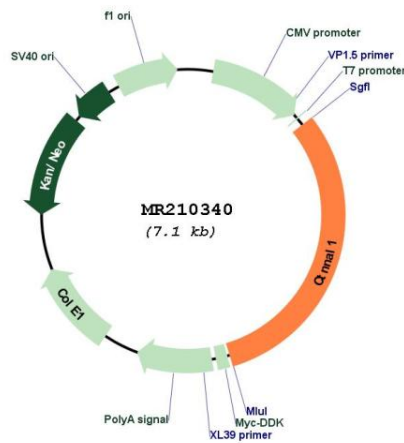
**ORF Size:** 2193 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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\\_018761.3](#), [NP\\_061231.3](#)
- RefSeq Size:** 3712 bp
- RefSeq ORF:** 2196 bp
- Locus ID:** 54366
- UniProt ID:** [O88327](#)
- Cytogenetics:** 4 B3
- MW:** 81.9 kDa
- Gene Summary:** May modulate the Rho pathway signaling by providing a scaffold for the Lbc Rho guanine nucleotide exchange factor (ARHGEF1).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210340