

Product datasheet for **MG210340**

Cttnal1 (NM_018761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cttnal1 (NM_018761) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cttnal1
Synonyms:	ACRP; AI616177; AW545119; C86009; Catnal1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210340 representing NM_018761
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCGCTTCTCCAGTCCCGGGCGGTGGCGGTGCGGGAGCTGTCCACTCCTCCAACCGCGTGGCTTCA
CCTTCGACTCGGGACTGGAGATCAGGACGCGCTCGGTGGAACAGACTCTTCTGCCCTGGTTTCTCAGAT
CACCACACTTATAAACCATAAAGATAATACCAAAAAGTCTGATAAAACCTGCAAGCGATTACAGCGTGTG
GGACAAGCGGTCAACTTGGCAGTTGGAAGATTTGTTAAAGTAGGGGAAGCTATAGCCAACGAAAAGTGGG
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AGATGTGACTAAACGGAGCCATTTGGAATCAGATGGTCAGGTCACGATTCTGACAGACAAAACAGGCGTC
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AGCAGATAGTGACATCGAGAAAACAGATTCTCGCAACCATGGAAGGCTAGAGAAAAGTAAACAGCTTTCA
GGATTTGTTTCTCAGATATTCAGCCAGTTTGGAAACGAAATGGTGGAGTTTGCACATCTAACGGGAGCCGA
CAAAATGATTTGAAAGATGAGAAGAAAAAGGCCAGAATGGCTGTGGCGAGGGCTGTGCTTAAAAAGGGTA
CGATGATGCTCCTTACAGCCTCAAAGACATGTCTCAGGCATCCCAGCTGTGAGTCAGCCACACAAAACAA
AGAAGGAGTGTGGACCGGATGAGAGTGGCCCTGGAGAAGGTCACGGAGATCGTGACTGACTGCAGACTC
AGCGGAGAGACCGACAGCTCATCTGTCAGCATTCTTACTGGGATTAAGAGTTGAAGGTGAATTTGAAG
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TGTGGAGGACTTCACTGATTCTGCCTACACCAGCCACGAGCACAGGAACGGATCTTGGAGCTGTCTTCT
CAGCGGAGGACAGAGCTGCAGCAGCTCCTTTCCGTGTGGATGCAAACCAAGCAGGAAGACAAAAGAGCC
GCGCCGAGGAGCTGGAACCTCACAGTTCTGAAGATCAGCCACAGCCTGGACGAGCTGAGGAGAGAATCCA
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ACTTCAAAGCCACGAAGAATAGTGCAAACCTGAAGTCACTAAAGCCGACAAAACCTGACTCGGAGGAG
CAAGCCAAGATAGCAAAGCTCGGGCTGAAGCTGGGATTGCTCTCCTCTGATGCTGACTGTGAAATCGAGA
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TTTATTTACTAGAGGAGAGGGGCCACTGAAAACCTCCCAGGACTTAATCACTTCTCCTAGAGGTTTTGCT
GCAGAGGGATTAAGCTTACTTCAAGTGTACAGTCATTTTCAAACAGCTAAAAGATGATGACAAAACCTTA
TGCTTCTCCTGGAAATAAACAACCTTATTCCTCTATGCCACCAGCTTACAGACAATAACTAAGACATCTTT
GCAGAGTAAAGTCTTTCTAAAGTTGACAAGTGTATTACAAAGATAAGATCCATGATGACTCTTGTGGTC
CAGCTCCTCTCACTTTGCTATAAACTACTGAAGAAGATGGAAAATAACAGATGGGGCTCTGCGACGAACA
AAGATACCATGGATGGTCAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210340 representing NM_018761
Red=Cloning site Green=Tags(s)

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MAASPVPGGGGAGAVHSSNAAGFTFDSGLEIRTRSVEQTLLPLVSQITTLINHKDNTKKSDKTLQAIQRV
GQAVNLAVGRFVKVGEAIANENWDLKEEINIACIEAKQAGETIASLTDVTKRSHLESGGQVTILTDK
VQARLLLSSVTKVLLLADRVVIKQIVTSRNKILATMERLEKVNSFQEFVQIFSQFGNEMVEFAHLTGDR
QNDLKDEKKKARMAVARAVLEKGTMMLLTASKTCLRHPSCESAHTNKEGVFDRMRVALEKVTEIVTDCRL
SGETDSSSVSIFTGIKELKVNIEALRENVCFESKENLSAAEAVLEHVEDFTDSAYTSHEHRERILELSS
QARTELQQLLSVWMQTQSRKTKSAAEELELTVLKISHSLDELRRLHCTAMQLAADLLKFHADHVVLKAL
KVTGVEGNLEALAEYACKLSEQKEQLVETCRLLRHISGTEPLEITCIHAEETFQVTGQQIISAAETLTLH
PSSKIAKENLDVFCEAWESQMSDMATLLREISDVFEGRRGERCDHLSLPKPTKNSANLSLKPKDPDSEE
QAKIAKLGLKGLLSSDADCEIEKWEDEENEIVRHGRNMSRMAYSLYLFTRGEGPLKTSQDLIHFLEVFA
AEGLKLTSSVQSFSKQLKDDDKLMLLLEINKLIPLCHQLQTITKTSLSQSKVFLKVDKCITKIRSMMTLV
QLLSLCYKLLKKMENNRWGSATNKDTMDGQN
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

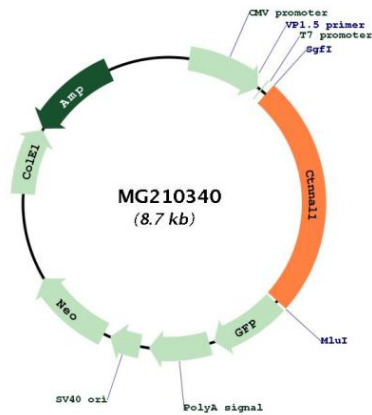
Locus ID: 54366

UniProt ID: [O88327](#)

Cytogenetics: 4 B3

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 MG210340