

Product datasheet for SC114168

CYRIB (NM_016623) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYRIB (NM_016623) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYRIB
Synonyms:	BM-009; CYRI; CYRI-B; FAM49B; L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114168 sequence for NM_016623 edited (data generated by NextGen Sequencing)

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ATGGGGAATCTTCTTAAAGTTTTGACATGCACAGACCTTGAGCAGGGGCCAAATTTTTC
CTTGATTTTGAAAATGCCAGCCTACAGAGTCTGAGAAGGAAATTTATAATCAGGTGAAT
GTAGTATTAAGATGCAGAAGGCATCTTGAGGACTTGCAAGGAGAGCTGGC
CACGAAATACGAGAGGCAATCCAGCATCCAGCAGATGAGAAGTTGCAAGAGAAGGCATGG
GGTGCAGTTGTTCCACTAGTAGGCAAAATTAAGAAATTTTACGAATTTTCTCAGAGGTTA
GAAGCAGCATTAAAGAGGTCTTCTGGGAGCCTTAACAAGTACCCCATATTCTCCACCCAG
CATCTAGAGCGAGAGCAGGCTCTTGCTAAACAGTTTGCAAGAAATTTCTCATTTTCACACTC
CGGTTTGATGAACTCAAGATGACAAATCCTGCCATACAGAATGATTTTCAGCTATTATAGA
AGAACATTGAGTCGTATGAGGATTAACAATGTACCGGCAGAAGGAGAAAATGAAGTAAAT
AATGAATTGGCAAATCGAATGTCTTTGTTTATGCTGAGGCAACTCCAATGCTGAAAACC
TTGAGTGATGCCACAACAAAATTTGTATCAGAGAATAAAAAATTTACCAATAGAAAATACC
ACAGATTGTTTAAGCACAATGGCTAGTGTATGCAGAGTCATGCTGGAAACACCGGAATAC
AGAAGCAGATTTACAAATGAAGAGACAGTGTCATTCTGCTTGAGGGTAATGGTGGGTGTC
ATAATACTCTATGACCACGTACATCCAGTGGGAGCATTGCTAAAACCTCCAAAATTGAT
ATGAAAGTTGTATCAAAGTTCTTAAGGACCAACCTCCTAATAGTGTGGAAGGTCTTCTA
AATGCTCTCAGGTACACAACAAAACATTTGAATGATGAGACTACCTCCAAGCAAAATAAA
TCCATGCTGCAATAA
  
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Clone variation with respect to NM_016623.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016623 unedited NGTTAGGATTTATGTATACGACTTCACTATANNGGCGGCCGCGCAATTCGGCACGAGGGC GTCGCGAGGCGAGCGTCCTCTTTTGTGCGAGCGCCGCGGCTCGGCTTCTCGAAGGAGA AGAAACTGAGGCTGGAATTTGATTAATCATTCAAGGTTACCCAGTTGATAGAAGGACA AGGACAGAATCACCAGCACTGGCTGAAGGTACCTAACATGGGGAATCTTCTTAAAGTTT TGACATGCACAGACCTTGAGCAGGGGCCAAATTTTTCTTGATTTTGAAATGCCCAGC CTACAGAGTCTGAGAAGGAAATTTATAATCAGGTGAATGTAGTATTAAGATGCAGAAG GCATCTTGAGGAGCTTGCAATCATACAGAGGAGCTGGCCACGAAATACGAGAGGCAATCC AGCATCCAGCAGATGAGAAGTTGCAAGAGAAGGCATGGGGTGCAGTTGTTCCACTAGTAG GCAAAATTAAGAAATTTTACGAATTTTCTCAGAGGTTAGAAGCAGCATTAGAGGTCTTC TGGGAGCCTTAACAAGTACCCCATATTCTCCACCCAGCATCTAGAGCGAGAGCAGGCTC TTGCTAAACAGTTTGAGAAATCTTCATTTCACTCCGGTTTGATGAAGTCAAGATGA CAAATCCTGCCATACAGAATGATTTAGCTATTATAGAAGAATGAGTCGTATGAGGA TTAACAATGTACCGCAGAAGGAGAAAAATGAAGTAAATAATGAATTGGCAATCGAATGT CCTTTGTTTTATGCTGAGGCACTCCAATGCTGAAACCTTTGAGTGATGCCACAACNAAT TTGTATCAGAGAATAAAATACCAATAGAAAATCCACAGATTTGTTTAGACAATGCCT AGTGATGCAGAGTCATGCTGGAACACCGNATN
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016623 unedited ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAAAAAGAAAGCTGAT TTTTATTTTATCATCAACAGCCATTCTTTAGACATGAACATGCATACGTAATATTCTACG CACACATCACAGCTTTTAACTTGTAAATAAAGGTTAAACACACAACATACATCCTTAC AAAAAAGTCAAAATGCAAACTTAAACTTTAAACAAAAGTATTACTAATTTAAAAAAG TTTGTGTTGGGTACCATTTGTACAACACAGTTAATTTAAACATTTTCATTTTGGTTGCAC ATGAAAAAGGCGCAGTAGAAAAATAAGTCATTGAGGGTTTTTAAATAGCAGAATAGGCA GTTTTGCCATGCAGGAGAAGCAATATTAATATTAGTTTTCAAAAAATCCACATTTAA AATATTAGTTCAAGTCACAGAATTTTCTCAGTAGAGACCCCAATGCAATGCATAATTA GCTGCCTTAGATGGCCGTTTGAAAGGATGATATCCCTTCAGAGTGTAATTTACTGATT TTGGCAGAGAAAAGCAAGTCTTAAGAACATGATTAAGAAAGAGGGAAGAGGAACAGAGGAA AGAAATAAAAGCAAGAATAAATGAGATAGTAATTGCAATCACTAAAAAAGTGCATTCTCA GTCATTGCAGAATACTGTCTTTCTGTCTACAGCAGGTGCTTATCCAGAATTGNTATTGC AGCATGGNATTAATTTGCTTGGAGGTAGTCTCATTCATCAAAATTTNNTGTGGGTACCTG AGAGCATTANAAGACCTTTCACACNTATTAGAGGNTGGGTCTAAGAACTTGATACCAC CTTTNATATCAATTTTGGAGTTAGCAATGCCTCACTGGGATGNACCTGCCCTAGAGTT TATTGACCAACATTACCTCCAGCGAATGAAGTCTCTTCATTGTAATCTG
Restriction Sites:	NotI-NotI
ACCN:	NM_016623
Insert Size:	1920 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:	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_016623.3, NP_057707.3</u>
RefSeq Size:	2219 bp
RefSeq ORF:	975 bp
Locus ID:	51571
UniProt ID:	<u>Q9NUQ9</u>
Cytogenetics:	8q24.21
Gene Summary:	Negatively regulates RAC1 signaling and RAC1-driven cytoskeletal remodeling (PubMed:31285585, PubMed:30250061). Regulates chemotaxis, cell migration and epithelial polarization by controlling the polarity, plasticity, duration and extent of protrusions. Limits Rac1 mediated activation of the Scar/WAVE complex, focuses protrusion signals and regulates pseudopod complexity by inhibiting Scar/WAVE-induced actin polymerization (PubMed:30250061). Protects against Salmonella bacterial infection. Attenuates processes such as macropinocytosis, phagocytosis and cell migration and restrict sopE-mediated bacterial entry (PubMed:31285585). Restricts also infection mediated by Mycobacterium tuberculosis and Listeria monocytogenes (By similarity). Involved in the regulation of mitochondrial dynamics and oxidative stress (PubMed:29059164).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.