

Product datasheet for **SC320560**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_016623.3
 GGCAGGTGTTGAGGGGCTCCCGGTCCGGCTGCCGCGCTCCCCGCTCCGGACCCGGGGC
 TCCCCCTAGCGCCGCTGAGGAGCCGCCTCTGCGGCTCCAGGAGGGCGCAGGAGCGGGACT
 GAGAGCGCCTGGAGGCTCGAGCGGAGGGTAATTCATTTGCACACCTGTTAGCAAGAAACA
 GAAGTTGAAGGACTGGAACAAGTGAAGTGAAGAGAGGGAAACGCCAATCCAAGGATAGAA
 GGACAAGGACAGAATCACCAGCACTGGCTGAAGGCCTCCTGTTTCTGCGCTTTCTCCTT
 TTCCTGTGAAATCTCCGAGGAGAAGAAAGATGATGGACAGTTTATCCTTTCAGTGCCAC
 AAGGCCTGTTTACTTGGCAGTAGGTCCTTAAGTTCCTTGCTTTTTTGTGCTGTTTGGTG
 ACTGGAAGAGGCCACAGAGACTCTCACTCTGGGAGGTTTGTGTCATGGGTAATCTCAT
 TAAGGTGCTAACCAGGGACATAGACCACAATGCAGCACATTTTTCTTGGACTTTGAAAG
 TACCTTAACATGGGAATCTTCTTAAAGTTTTGACATGCACAGACCTTGAGCAGGGGCCA
 AATTTTTCTTGATTTTGAAAATGCCAGCCTACAGAGTCTGAGAAGGAAATTTATAAT
 CAGGTGAATGTAGTATTAAGATGCAGAAGGCATCTTGAGGACTTGAGTCATACAGA
 GGAGCTGGCCACGAAATACGAGAGGCAATCCAGCATCCAGCAGATGAGAAGTTGCAAGAG
 AAGGCATGGGGTGCAGTTGTTCCACTAGTAGGCAAATTAAGAAATTTACGAATTTCT
 CAGAGGTTAGAAGCAGCATTAAAGAGTCTTCTGGGAGCCTTAACAAGTACCCCATATTCT
 CCCACCCAGCATCTAGAGCGAGAGCAGGCTCTTGTAAACAGTTTGCAGAAATTTCTCAT
 TTCACACTCCGGTTTGATGAAGTCAAGATGACAAATCCTGCCATACAGAAATGATTTCAGC
 TATTATAGAAGAACATTGAGTCGTATGAGGATTAACAATGTACCGGCAGAGGAGAAAAAT
 GAAGTAAATAATGAATTGGCAATCGAATGTCTTTGTTTTATGCTGAGGCAACTCCAATG
 CTGAAAACCTTGAGTGATGCCACAACAAAATTTGTATCAGAGAATAAAAAATTTACCAATA
 GAAAATACCACAGATTGTTTAAAGCACAATGGCTAGTGTATGCAGAGTCATGCTGGAAACA
 CCGGAATACAGAAGCAGATTTACAAATGAAGAGACAGTGTCATTCTGCTTGAGGGTAATG
 GTGGGTGTCATAATACTCTATGACCACGTACATCCAGTGGGAGCATTTGCTAAAACTTCC
 AAAATTGATATGAAGGTTGTATCAAAGTCTTAAGGACCAACCTCCTAATAGTGTGGAA
 GGTCTTCTAAATGCTCTCAGGTACACAACAAACATTTGAATGATGAGACTACCTCCAAG
 CAAATTAATCCATGCTGCAATAACAATCTGGAATAAGCACCTGCTGTAGACAGAAGAC
 AGTATTCTGCAATGACTGAGAATGCAGTTTTTTAGTGATTGCAATTACTATCTCATTAT
 TCTTGCTTTTATTTCTTCTCTGTTTCTTCCCTCTTTTTTAATCATGTTCTTAAGAC
 TTCTTTTCTGTGCCAAAATCAGTAAAGTTACACTCTGAAGGGATATCATCTTTCAAACG
 GGCCATCTAAGGCAGCTAATTATGCATTGCATTGGGGTCTCTACTGAGAAAAATCTGTG
 ACTTGAACATAAATTTTTTAAATGTGGATTTTTTTTGAAGTAAATTTAATATTGCTTC
 TCCTGCATGGCAAACTGCCTATTCTGCTATTTAAAAACCTCAATGACTTTATTTTCTA
 CTGCCGCTTTTTCATGTGCAACCAAAATGAAAATGTTTAAATTAAGTGTGTGTACAAA
 TGGTACCAACACAACTTTTTTAAATAGTAATACTTTTGTAAAGTTTAAAGTTTG
 CATTTTGACTTTTTTTGAAGGATGTATGTTGTGTGTTTAACTTTATTAACGTTA
 AAAGCTGTGATGTGTGCGTAGAATATTACGTATGCATGTTTCATGTCTAAAGAATGGCTGT
 TGATGATAAAATAAAATCAGCTTTCATTTTCTAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_016623

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.