

## Product datasheet for **SC304844**

### KIAA1432 (RIC1) (NM\_020829) Human Untagged Clone

#### Product data:

|                           |                                                                                                                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                                                                                                                              |
| Product Name:             | KIAA1432 (RIC1) (NM_020829) Human Untagged Clone                                                                                                                                                 |
| Tag:                      | Tag Free                                                                                                                                                                                         |
| Symbol:                   | KIAA1432                                                                                                                                                                                         |
| Synonyms:                 | bA207C16.1; CATIFA; CIP150; KIAA1432                                                                                                                                                             |
| Mammalian Cell Selection: | Neomycin                                                                                                                                                                                         |
| Vector:                   | pCMV6-Entry (PS100001)                                                                                                                                                                           |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                                                                                                                             |
| Fully Sequenced ORF:      | >SC304844 representing NM_020829.<br><span style="color: blue;">Blue</span> =Insert sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
ATGTATTTTCTGAGCGGCTGGCCCAAGAGGCTGCTGTGCCCTCTGGGAGCCCGGCCGAGGCGCCTTTT  
CACGTTCACTCCGACCCGAGAGGGCTTTCTTCGCCGTGCTGGCCGCGGCCCGCCTCAGCATCTGGTAC  
AGCCGACCTAGTGTGTTAATTGAACCTACAAGGAGCCTGCAAAATCATCTACTCAGTTTGGATCTTAC  
AAGCAAGCTGAATGGAGGCCAGATAGTACCATGATAGCTGTATCAACGGCAAATGGATACATCTTGTTT  
TTTCATATTACATCTACAAGAGGGGACAAGTACCTTTATGAACCAGTGTATCCAAAGGAAGTCCACAA  
ATGAAGGGGACACCCATTTTAAGGAAGAACAGTGTGCTCCAGCATTAAATTTGGAGATGAGGAAAATA  
CTGGATTTACAAGCACCCATCATGAGTTTGCAGTCTGTGTTGGAAGATCTCCTGGTTGCTACTTCTGAT  
GGACTTCTTCATCTTATTCAGTGGGAAGGAATGACAAATGGAAGGAAAGCCATTAATCTTTGCACAGTA  
CCCTTTTCAGTAGACCTGCAGTCATCTAGAGTAGGTTTCATTCTGGGCTTCACAGACGTACACATCAGA  
GACATGGAATACTGTGCCACACTTGATGGGTTTGCTGTTGTATTTAATGATGGTAAAGTTGGATTATT  
ACACCAAGTGTCAAGTAGATTTACTGCAGAGCAGCTTCATGGAGTTTGGCCACAAGATGTTGTTGACGGA  
ACGTGTGTAGCAGTAAATAACAAGTATCGACTAATGGCATTGGCTGTGTGAGTGGTTCTGTGCAGGTC  
TATACAATAGATAACAGCACTGGAGCCATGCTGCTATCTCATAAATTAGAGCTAACAGCAAAACAGTAT  
CCTGACATTTGGAATAAAACAGGAGCTGTAAATTGATGAGATGGTCTCCTGACAATAGTGTGTAATA  
GTGACCTGGGAATACGGAGGCCCTTTCTTTATGGAGTGTTTTTGGAGCACAGCTGATTTGTACACTTGGG  
AGAGATTTTGCTTATAGGTCTGATGGCACCAAAAAAGATCCCTTAAGATCAACTCTATGAGCTGGGGT  
GCAGAAGGCTATCACCTATGGGTAATCAGCGGATTTGGTTCTCAAAACACTGAAATTGAGTCTGACCTC  
AGGAGTGTAGTTAAACAGCCAGCATCCTGTTATTTCAAGTTTATTAAGAGTGTACTCACTGTAAACCT  
TGTATGAGTAACCAAGAGCAGGTGTTGCTTCAGGGTGAGGATCGCTTGACTTGAAGTGTGGAGAGGCT  
TCACAAACCCAGAATCCAGGAGTTCTTCAACACACTCTGAGCATAAGCCAGTCGAGAAAAGAGCCCA  
TTTGCAGATGGAGTTTAGAGTCTCAGGATTAAGCACTTACTTGGACATCGGCATTGGCATGTTGTA  
CAGATTTCCAGCACCTATCTAGAGAGCAATTGGCCTATACGGTTTCAGCTATTGATAAGCTTGGACAG


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AATATTGCTGTGGTTGGCAAGTTTGGTTTTGCACATTACTCTTTACTCACCAAAAAATGAAACTTTTT  
 GGAAACATTACCCAGGAGCAAAATATGATCGTGACAGGTGGCTTAGCCTGGTGAATGATTTTATGGTC  
 CTTGCGTGTATAACATAAATGACCGTCAAGAAGAGCTTAGAGTATACTTGCGAACATCAAATCTGGAC  
 AATGCCTTTGCTCATGTACCAAAAGCACAGCAGAAACATTACTGCTTAGTGTCTTCCAGGACATGGTA  
 ATAGTATTTAGAGCAGACTGTTCAATATGCCTTTACAGTATTGAAAGAAAATCTGATGGTCCAAATACT  
 ACTGCTGGTATTCAAGTCTTTCAGGAGGTTTCCATGTCACGCTACATTCTCACCTTTCTGGTGGTA  
 TCTGTCACTCTGACATCAGTGAGTACAGAGAATGGAATCACCTTGAAAATGCCACAGCAGGCTCGTGGT  
 GCAGAGAGCATTATGTTAAACCTGGCAGGACAGCTCATCATGATGCAGAGGGACAGGTACAGGCCACAG  
 ATCCGGGAGAAGGACAGTAACCCATAATAACCAAAGGAACTTCTGCCATTCTGTCTCTCTGTTGTA  
 GCCCAGTCTGTTGAAAATGTCTGGACAACGTGTCGAGCAAATAACAGAAACGTACCTTCTGGAGGCC  
 CTCTGGCTGAGCTGTGGTGGTGCAGGGATGAAAGTTTGGCTCCCTCTCTTCCCTAGGGATCACCGCAAG  
 CCCCATTCTTCTGTCCAGCGGATCATGCTGCCTTTCCACATCAACATTTACCCGCTAGCTGTTCTG  
 TTTGAAGATGCTTAGTCCTTGGTGTCTCAATGACACTTTGCTCTATGATTCTTTATATACTCGGAAC  
 AATGCTAGAGAACAGCTGGAGGTGCTTCCCTTTCTGTGTTGTGGAGAGAACCTCTCAGATCTACCTC  
 CACCACATTCTAGTCAACTTCTGGTCAAGAACTTGGGAGCAAGCCTTGCTCTTGGCCAGTCTGT  
 GCCACATTACCTTACTTCCCTCATGTGCTGGAGCTCATGCTCCATGAAGTACTGGAAGAAGAAGCTACC  
 TCACGGGAGCCCATCCCGACCTCTGCTTCCCACTGTGGCAAAATTTATCACTAGTTCCTCTCTTCT  
 CTGCAGACAGTTGTCATTGTGCCAGGAAGACCGAATATGCCCTGTGGAATTACCTTTTTGCAGCTGTT  
 GGAAACCTTAAGGACTTGTGTTGAGGAGTGTGATGGCTCAGGATTTGGACACAGCTGCCTCTTACCTT  
 ATTATCTTACAGAATATGGAAGTCCCTGCAGTAAGTAGGCAACATGCTACCTTCTATTCAACACAGCA  
 CTAGAACAAGGCAAGTGGGACCTTTGTCGACACATGATTCGATTTCTTAAAGCCATTGGCTCTGGAGAA  
 TCTGAGACACCTCCATCCACACCCACAGCTCAGGAACCCAGTTCAAGTGGTGGATTTGAGTCTTCAGG  
 AATCGAAGCATCAGTTTATCCCACTCAGCTGAAAATGTTCTGCCAGTAAATTCAGTTTACAGAAAACA  
 CTAAGTATGCCATCTGGTCCCTCTGGAAAAAGATGGAGCAAGACAGTGACTGTGCTGAGAACATGTAT  
 ATTGACATGATGCTCTGGAGACATGCTCGGCGCTCTTGAAGATGTGAGGTTAAAGGACCTTGGCTGC  
 TTTGCAGCCAGCTGGGCTTTGAACTAATTAGTTGGCTATGCAAGGAACGTACCCGAGCCGCCGGGTA  
 GACAACCTTTGTAATAGCCCTGAAGAGACTCCACAAAGATTTCTGTGGCACTTCCAATCATCCAGCC  
 TCTTCTATCAGTTCTCTTTCAAAAATGGAAAATACCGAAGTGTGGGAGAGCAGCTGTTAAAGTCTCAA  
 TCAGCTGACCCATTTTGAACCTTGAGATGGATGCTGGCATCTCAACATCCAGCGAAGTCAGAGCTGG  
 CTCAGCAACATTGGCCCCACCCATCATGAGATAGACACAGCTTCATCCATGGACCACAAATGCAAGAT  
 GCCTTCTTGTACCTTTATCTAATAAAGGTGATGAATGCAGTATTGGTTCAGCCACAGACTTGACTGAA  
 AGTAGCTCCATGGTGGATGGCGACTGGACAATGGTGGATGAAAATTTCTTACACTCAGTTAACTCAG  
 TCAGAGCTGGAGCACATTTCCATGGAGTTGGCCAGTAAAGGGCCTCATAATCCAGGTCCAGCTTCGG  
 TATTTGCTACACATTTTCATGGAGGCAGGGTGCCTAGACTGGTGCATCGTTATAGGCCTGATTCTTAGA  
 GAATCCTCAATAATCAATCAGATTTTGGTTATTACACAGTCTTCAGAGGTAGATGGAGAGATGTTACAG  
 AACATAAAGACAGGGCTCCATGCAGTGGACCGATGGGCTCTACAGACTGTCTGGATATAAGCCATTT  
 TTAAACATCATTAAAGCCACAAGTGCAGAAGCTCAGTGAGATAACAGAAGAGCAGGTCCAGCCAGATGCC  
 TTCCAACCAATAACTATGGGTAAGACTCCAGAACAGACTAGCCCCCGGGCAGAGGAGAGCAGGGGCTCC  
 TCCAGCCATGGAAGCATCCCCAGGGTGAAGTTGGAAGCAGCAATATGGTCAGCCGGAAGAGAGGAGAC  
 ACAGCCCAAGCAGAGGAGGAAGAACCTTTTCAGGATGGGACTTACGACTGTTCTGTGTCTTAA  
 ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:**

Sgfl-MluI

**ACCN:**

NM\_020829

**Insert Size:**

4272 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Annotation:</b>        | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                 |
| <b>RefSeq:</b>                | <u>NM_020829.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 6787 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 4272 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 57589                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q4ADV7</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 9p24.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MW:</b>                    | 159.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Summary:</b>          | <p>The RIC1-RGP1 complex acts as a guanine nucleotide exchange factor (GEF), which activates RAB6A by exchanging bound GDP for free GTP and may thereby required for efficient fusion of endosome-derived vesicles with the Golgi compartment. The RIC1-RGP1 complex participates in the recycling of mannose-6-phosphate receptors. Required for phosphorylation and localization of GJA1.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). 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.</p> |