

Product datasheet for **SC214865**

RICH2 (ARHGAP44) (NM_014859) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	RICH2 (ARHGAP44) (NM_014859) Human 3' UTR Clone
Symbol:	RICH2
Synonyms:	NPC-A-10; RICH2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014859
Insert Size:	1502 bp



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Insert Sequence:	>SC214865 3'UTR clone of NM_014859 The sequence shown below is from the reference sequence of NM_014859. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site
	<pre> GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GAGGAGGAGTCTGAGAGCACCGCCCTCTGACATGACACCGCCATCCTGCCTCGCGTGACATACATCA CGGGCCCTAGGAACGCCGCCAGGAGCAGCGTCCATGAGCTTGCCAAGTGTCTCTGCTGGCTCTTTCCT GCCACTGCCAACACGAGGTTGGAATTTGGCAGAAAATTGTGATCTCCAGTCCGTGTGGTGATGCTGGTG GTGCAGGTTTTGTTGTTCTTTTCGGGTGGTGACTTCGGCCTTTTGTGTTGACCTTTGCTTTTGACTTT GTGCTCTTTTGATCCACTTTCAGCCTCCATGCCAGAAAACACCCACCTCTCCATCCAAGGCTGGTCAG GAACGTCCTTTGCAGGTCGGGGTGGTGGGAGAGGCTCACTTTCCTGGTTAGACCAAGGGCTGCT ACCTTTTCTTTGGACGGCTCATGTCAGGCTTGCAGGATCAGTTAATGGCCACAGAAAGGAAGCAGGA CAGCAGGGCCCCCTCACCCACAACCTGGACCAGGTCCAGGATTCTAGCAGTCTGGGGCACTGACCTTT GCCAGCTACCTGGGGGAGGGCTTGCCACTGGAAAACCTTTTCAGGCCGCCCCCATAGTGGGCTCCAAAG TAAATGGCTGAAAACAAAATGTTTCACTTCTAACAGTTTTCTTTTCCACTGTGTGACTGAAAGCT CCTATATCATTTTATATTTCTGAATCTATAAAACAAAACAAAGCCTGACAGTGTCTGGAGGAGCCA AAGGTGGCCTCCCTGTCCCAATATATTGGCTATATGAGAGTAATTTTACCCCTCTACGTACCTAAAG GCACCCAGTTCACTAGTCTGTGGGTCCTGGAGCCTGTCTCTTCTTCTGGAGGTTCAAAGTGAATAGC AATAATTACGTTACCCAAAGCATGTGGAGGAAAAGTGAACACGACGAGAGCTGGCCACGGGCT CGGCCTGCGGTGTGGCTGCTTTGCTCACCAGCGTCAGCCGCTCATTTCTTCTCATGAAGTCCCATCT GGTCATGGGACGAGGGCCGGGAGGGCACCGGGTAGCCTTTTCACTTGGGATTAGGGGAGTGAGAA AAGATTTGGGCCATGCATGCAAAAGTCAAAGTTTAAATTTTATCCTTTTCAAATAGATGATATAATATA CCTATACATGATATAATTTGTATATATGAAATCTCTCTATATTGTTAATTTGAGCCATTCAATCT AAACCAATGTACAGGTGTACAATGAAAAATTTAAATGCTTAGTTATTTTCCCAACACAGTGTAAGTC ACCCTCTCTGAGAGTGGGATGTGCAGAGTTTTGATGTTGCAGCTTTGCTCACTTCTGGCAAGGGCAG GTCATGCCTCAATTTGTAATGGGAGTCTGGGTAAGGGTGGGGTTGAAAGTTGTTATCTTTAAATACA TGTACAAATCGTTGTCAAAGTAACGTTATTAATAAGATTTATTATCCCTGA ACGCGTAAGCGGCCGCGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG </pre>
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_014859.6</u>

Summary:

GTPase-activating protein (GAP) that stimulates the GTPase activity of Rho-type GTPases. Thereby, controls Rho-type GTPases cycling between their active GTP-bound and inactive GDP-bound states. Acts as a GAP at least for CDC42 and RAC1 (PubMed:11431473). In neurons, is involved in dendritic spine formation and synaptic plasticity in a specific RAC1-GAP activity (By similarity). Limits the initiation of exploratory dendritic filopodia. Recruited to actin-patches that seed filopodia, binds specifically to plasma membrane sections that are deformed inward by acto-myosin mediated contractile forces. Acts through GAP activity on RAC1 to reduce actin polymerization necessary for filopodia formation (By similarity). In association with SHANK3, promotes GRIA1 exocytosis from recycling endosomes and spine morphological changes associated to long-term potentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Locus ID:

9912

MW:

55.6