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Product datasheet for SC338023

RICTOR (NM_001285440) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RICTOR (NM_001285440) Human Untagged Clone
Tag:	Tag Free
Symbol:	RICTOR
Synonyms:	AVO3; hAVO3; PIA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001285440, the custom clone sequence may differ by one or more nucleotides

ATGGGAATCATAGCAACATTCCGATCATGGGCAGGTATTATTAATTTATGTAAACCTGGAAATTCTGGGA
TCCAGTCTCTAATAGGAGTACTTTGCATACCAAATATGGAAATAAGGCGAGGTCTACTTGAAGTGCTTTA
TGATATATTTCGTCTTCCTCTACCTGTTGTGACTGAGGAGTTCATAGAAGCACTACTCAGTGTAGATCCA
GGGAGGTTCCAAGACAGTTGGAGGCTTTCAGATGGCTTTGTGGCAGCTGAGGCAAAAACTATTCTTCCTC
ATCGTGCCAGATCCAGGCCAGACCTCATGGATAATTATTTGGCACTGATACTCTCTGCATTTATTCGTAA
TGGACTTTTAGAGGGTCTAGTTGAAGTGATAACAAACAGTGATGATCATATCTCAGTTAGAGCTACCATC
CTTTTAGGAGAGCTTTTACATATGGCAAACACAATTCTTCCTCATTCACATAGCCATCATTTACACTGCT
TGCCAACCCTAATGAATATGGCTGCATCCTTTGATATCCCCAAGGAAAAGAGACTGCGAGCCAGTGCAGC
CTTGAACTGTTTAAAACGCTTCCATGAAATGAAGAAACGAGGACCTAAGCCTTATAGTCTTCATTTAGAC
CACATTATTCAGAAAGCAATTGCAACACACCAGAAACGGGATCAGTATCTCCGAGTTCAGAAAGATATAT
TTATCCTTAAGGATACAGAGGAAGCTCTTTTAATTAACCTTAGAGATAGCCAAGTCCTTCAACATAAAGA
GAATCTTGAATGGAATTGGAATCTTATAGGGACCATTCTTAAGTGGCCAAATGTAAATCTAAGAAACTAT
AAAGATGAACAGTTACACAGGTTTGTACGAAGACTACTTTATTTTTACAAGCCCAGCAGTAAATTATATG
CCAACCTGGATCTGGATTTTGCCAAGGCCAAACAGCTCACGGTTGTAGGTTGCCAGTTTACAGAATTTCT
TCTTGAATCTGAAGAGGATGGGCAAGGCTACTTAGAAGATCTAGTAAAGGATATTGTTCAGTGGCTCAAT
GCTTCATCTGGAATGAAACCCGAAAGAAGTCTTCAAAATAATGGTTTATTGACCACCCTTAGTCAACACT
ACTTTTTATTTATTGGAACACTTTCTTGCCACCCTCATGGAGTTAAAATGCTGGAAAAATGCAGTGTATT
TCAGTGTCTCCTTAATCTTTGCTCCTTGAAAAACCAAGATCACTTGCTAAAACTTACTGTTTCTAGCTTG
GACTATAGCAGAGATGGATTGGCTAGAGTCATCCTTTCCAAAATTTTAACTGCAGCTACTGATGCCTGCA
GACTCTATGCAACAAAACATTTAAGGGTATTATTGAGAGCTAATGTTGAATTCTTTAATAATTGGGGAAT
TGAGTTGTTAGTGACCCAGCTACATGATAAAAACAAAACGATTTCCTCTGAAGCTCTTGATATCCTCGAT
GAAGCATGTGAAGACAAGGCCAATCTTCATGCTCTCATTCAGATGAAACCAGCGTTATCCCACCTTGGAG
ACAAGGGTTTGCTTCTCCTGCTGAGATTTCTCTCCATTCCAAAAGGATTTTCCTATCTGAATGAAAGAGG

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TTATGTAGCAAAACAATTGGAAAAGTGGCACAGGGAATACAACTCCAAATATGTTGACTTGATTGAGGAA
CAACTCAATGAAGCACTTACTACTTACCGGAAGCCTGTTGATGGTGATAACTATGTTCGTCGGAGTAACC
AAAGATTACAGCGTCCTCACGTCTACCTGCCTATACACCTTTATGGACAACTAGTACACCATAAAACAGG
CTGCCATTTGTTGGAAGTACAGAATATTATTACAGAACTCTGTCGTAATGTTCGTACACCAGATTTGGAT
AAGTGGGAAGAAATTAAAAAACTGAAAGCATCTCTTTGGGCCTTGGGAAATATCGGCTCATCAAATTGGG
GTCTCAATTTGCTACAGGAAGAAAACGTGATTCCAGATATACTAAAACTTGCAAAACAGTGTGAAGTTCT
TTCCATCAGAGGGACCTGTGTATATGTACTTGGGCTCATAGCTAAAACCAAACAAGGCTGTGATATTCTA
AAATGTCACAACTGGGATGCTGTGAGGCATAGTCGCAAACATCTGTGGCCAGTGGTTCCAGATGATGTGG
AACAACTCTGTAATGAACTTTCATCTATCCCAAGCACTCTAAGTTTGAACTCGGAGTCAACCAGCTCTAG
ACATAATAGTGAAAGTGAATCTGTGCCATCGAGTATGTTCATATTGGAGGATGACCGGTTTGGCAGCAGC
TCTACTAGTACATTTTTCCTTGATATCAATGAAGATACAGAGCCAACATTTTATGACCGATCTGGACCCA
TAAAGGATAAAAATTCATTCCCTTTCTTTGCTTCTAGTAAACTTGTGAAGAATCGTATCTTAAATTCGCT
TACTTTGCCTAACAAAAAACATCGTAGTAGCAGTGATCCAAAAGGAGGGAAATTATCATCTGAAAGTAAG
ACAAGCAACAGGCGAATCAGAACACTTACGGAGCCCAGTGTTGATTTTAATCATAGTGATGATTTTACAC
CCATATCCACTGTACAGAAAACATTACAATTAGAGACTTCATTTATGGGGAATAAGCACATTGAAGACAC
TGGTAGTACACCAAGCATTGGAGAAAATGACTTAAAATTCACCAAGAATTTTGGTACAGAGAATCACAGA
GAAAATACAAGCCGAGAGAGGTTAGTAGTAGAAAGTTCAACGAGCTCACATATGAAGATACGTAGCCAAA
GTTTCAATACAGACACTACAACAAGTGGCATAAGTTCAATGAGCTCAAGTCCTTCACGAGAGACAGTAGG
TGTAGATGCTACAACTATGGACACAGACTGTGGAAGCATGAGTACTGTGGTAAGTACTAAAACTATTAAG
ACAAGCCACTATTTGACGCCACAGTCTAACCATCTGTCTCTCTCCAAATCAAATTCGGTGTCCCTGGTGC
CTCCAGGTTCTTCTCATACGCTTCCTAGAAGAGCACAGTCCCTTAAAGCACCCTCTATTGCTACAATTAA
AAGTCTAGCAGATTGTAACTTTAGTTACACAAGTTCTAGAGATGCTTTTGGCTATGCTACACTGAAAAGA
CTACAGCAACAAAGAATGCATCCATCCTTATCTCACTCTGAAGCTTTGGCATCTCCAGCAAAAGATGTGC
TATTTACTGATACCATCACCATGAAGGCCAACAGTTTTGAGTCCAGATTAACACCAAGCAGGTTCATGAA
AGCCTTAAGTTATGCATCATTAGATAAAGAAGATTTATTGAGTCCTATTAATCAAAATACCCTGCAACGA
TCTTCCTCAGTGCGGTCCATGGTGTCCAGTGCCACATATGGGGGTTCAGATGATTACATTGGTCTTGCTC
TCCCGGTGGATATAAATGATATATTCCAGGTAAAGGATATTCCCTATTTTCAGACAAAAAACATACCACC
ACATGATGATCGAGGTGCAAGAGCATTTGCCCATGATGCAGGAGAAAGTACAGAAGACACTGGACTACAG
GAACATACAGATGATAACTGCCTTTATTGTGTCTGTATTGAAATTCTGGGTTTCCAGCCCAGCAACCAAC
TGAGTGCAATATGTAGTCATTCAGACTTTCAAGATATTCCATATTCTGATTGGTGTGAGCAGACTATCCA
TAATCCTTTAGAAGTGGTTCCCTCTAAGTTTTCGGGGATTTCTGGATGCAGTGATGGGGTGTCTCAAGAA
GGCTCAGCTAGCAGCACCAAAAGCACAGAATTGTTACTAGGTGTTAAAACAATTCCAGATGATACACCAA
TGTGCCGTATACTCCTTCGCAAAGAAGTTCTAAGATTAGTCATTAATTTGAGTAGTTCAGTTTCAACTAA
ATGTCATGAGACTGGGCTTTTAACAATTAAGGAGAAGTATCCTCAAACATTTGATGACATATGCCTTTAC
TCTGAGGTTTCCCATTTGCTGTCACACTGCACATTCAGACTTCCGTGTCGGAGGTTCATACAAGAATTAT
TTCAAGATGTACAGTTTCTACAAATGCATGAAGAAGCAGAGGCTGTGTTGGCAACACCACCAAAGCAACC
TATAGTTGATACATCTGCTGAATCCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001285440

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:	NM_001285440.1, NP_001272369.1
RefSeq Size:	9441 bp
RefSeq ORF:	4158 bp
Locus ID:	253260
UniProt ID:	Q6R327
Cytogenetics:	5p13.1
Protein Pathways:	mTOR signaling pathway
Gene Summary:	RICTOR and MTOR (FRAP1; MIM 601231) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth (Sarbassov et al., 2004 [PubMed 15268862]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (3) uses in-frame acceptor splice sites at 2 internal exons compared to variant 1. The resulting isoform (3) is shorter than isoform 1. 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.