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Product datasheet for SC211383

MTOR (NM_004958) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	MTOR (NM_004958) Human 3' UTR Clone
Symbol:	MTOR
Synonyms:	FRAP; FRAP1; FRAP2; RAFT1; RAPT1; SKS
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_004958
Insert Size:	980 bp
Insert Sequence:	>SC211383 3'UTR clone of NM_004958 The sequence shown below is from the reference sequence of NM_004958. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC TGCTATATTGGCTGGTGCCCTTTCTGGTAACTGGAGGCCCAGATGTGCCCATCACGTTTTTTCTGAGGC TTTTGTACTTTAGTAAATGCTTCCACTAAACTGAAACCATGGTGAGAAAGTTTGACTTTGTTAAATATT TTGAAATGTAAATGAAAAGAACTACTGTATATTAAAAGTTGGTTTGAACCAACTTTCTAGCTGCTGTTG AAGAATATATTGTCAGAAACACAAGGCTTGATTTGGTTCCCAGGACAGTGAAACATAGTAATACCACGT AAATCAAGCCATTCATTTTGGGGAACAGAAGATCCATAACTTTAGAAATACGGGTTTTGACTTAACTCA CAAGAGAACTCATCATAAGTACTTGCTGATGGAAGAATGACCTAGTTGCTCCTCTCAACATGGGTACAG CAAACTCAGCACAGCCAAGAAGCCTCAGGTCGTGGAGAACATGGATTAGGATCCTAGACTGTAAAGACA CAGAAGATGCTGACCTCACCCCTGCCACCTATCCCAAGACCTCACTGGTCTGTGGACAGCAGCAGAAAT GTTTGCAAGATAGGCCAAAATGAGTACAAAAGGTCTGTCTTCCATCAGACCCAGTGATGCTGCGACTCA CACGCTTCAATTCAAGACCTGACCGCTAGTAGGGAGGTTTATTCAGATCGCTGGCAGCCTCGGCTGAGC AGATGCACAGAGGGGATCACTGTGCAGTGGGACCACCCTCACTGGCCTTCTGCAGCAGGGTTCTGGGAT GTTTTCAGTGGTCAAAATACTCTGTTTAGAGCAAGGGCTCAGAAAACAGAAATACTGTCATGGAGGTGC TGAACACAGGGAAGGTCTGGTACATATTGGAAATTATGAGCAGAACAAATACTCAACTAAATGCACAAA GTATAAAGTGTAGCCATGTCTAGACACCATGTTGTATCAGAATAATTTTTGTGCCAATAAATGACATCA GAATTTTAAACATA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI

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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:	NM_004958.4
Summary:	The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This kinase is a component of two distinct complexes, mTORC1, which controls protein synthesis, cell growth and proliferation, and mTORC2, which is a regulator of the actin cytoskeleton, and promotes cell survival and cell cycle progression. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. Inhibitors of mTOR are used in organ transplants as immunosuppressants, and are being evaluated for their therapeutic potential in SARS-CoV-2 infections. Mutations in this gene are associated with Smith-Kingsmore syndrome and somatic focal cortical dysplasia type II. The ANGPTL7 gene is located in an intron of this gene. [provided by RefSeq, Aug 2020]
Locus ID:	2475
MW:	37.6