

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

Vector: pMirTarget (PS100062)

Symbol: MTOR

Synonyms: FRAP; FRAP1; FRAP2; RAFT1; RAP1; SKS

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

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TGCTATATTGGCTGGTGCCCTTTCTGGTAACTGGAGGCCAGATGTGCCATCACGTTTTTCTGAGGC
TTTTGTACTTTAGTAAATGCTTCCACTAACTGAAACCATGGTGAGAAAGTTTGACTTTGTAAATATT
TTGAAATGTAAATGAAAAGAACTACTGTATATTAAGTTGGTTTGAACCACTTTCTAGCTGCTGTTG
AAGAATATATTGTCAGAAACACAAGGCTTGATTTGGTTCCAGGACAGTGAAACATAGTAATACCCAGT
AAATCAAGCCATTCATTTTGGGAAACAGAAGATCCATAACTTTAGAAATACGGGTTTTGACTTAACTCA
CAAGAGAACTCATATAAGTACTTGCTGATGGAAGAATGACCTAGTTGCTCCTCTCAACATGGGTACAG
CAAACCTCAGCACAGCCAAGAAGCCTCAGGTCGTGGAGAACATGGATTAGGATCCTAGACTGTAAAGACA
CAGAAGATGCTGACCTCACCCCTGCCACCTATCCAAGACCTCACTGGTCTGTGGACAGCAGCAGAAAT
GTTTGCAAGATAGGCCAAAATGAGTACAAAAGGCTGTCTTCCATCAGACCCAGTGATGCTGCGACTCA
CACGCTTCAATCAAGACCTGACCGCTAGTAGGGAGGTTTATTGATCGCTGGCAGCCTCGGCTGAGC
AGATGCACAGAGGGGATCACTGTGCAAGTGGGACCACCCTCACTGGCCTTCTGCAGCAGGGTTCTGGGAT
GTTTTAGTGGTCAAAATACTCTGTTTATAGCAAGGGCTCAGAAAACAGAAATACTGTCATGGAGGTGC
TGAACACAGGGAAGGTCTGGTACATATTGAAATTATGAGCAGAACAAATACTCAACTAAATGCACAAA
GTATAAAGTGTAGCCATGTCTAGACACCATGTTGTATCAGAATAATTTTGTGCCAATAAATGACATCA
GAATTTTAAACATA
ACGCGTAAGCGGCCGCGGCATCTAGATTGCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG

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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 |