

Product datasheet for **SC222100**

Hamartin (TSC1) (NM_000368) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Hamartin (TSC1) (NM_000368) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	TSC1
Synonyms:	LAM; TSC
ACCN:	NM_000368
Insert Size:	2000 bp



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Insert Sequence: >SC222100 3'UTR clone of NM_000368
 The sequence shown below is from the reference sequence of NM_000368. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
TACAATGAGACTCATCATGAACACAGCTAAGGAATGATGGTCAATCAGTGTTAAGTGCATATTGTTGG
CACAGAACAGGAGGTGTGAATGCACGTTTCAAAGCTTTCTGTTTCCAGGGTCTGAGTGCAAGTTCATG
TGTGAAATGGGACGGAGGTCTTTGGACAGCTGACTGAATGCAGAACGGTTTTTGGATCTGGCATTGA
AATGCCTCTTGACCTTCCCCTCCACCCGCCCTAACCCCTCTCATTTACCTCGCAGTGTGTTCTAATCC
AAGGGCCAGTTGGTGTCTCAGTAGCTTTACTTTCTCTCTTCCCCCAAAATGGTTGCGTCTTTGA
ACCTGTGCAATATGAGGCCAAATTAATCTTTGAGTCTAACACACCCTTTCTGCTTTCCGGAAGTTCA
GATAACTGGGTTGGCTCTCAATTAGACCAGGTAGTTTGTGTCATTGCAGGTAAGTCTGGTTTTGTCCT
TCCAGGAGGACATAGCCTGCAAAGCTGGTTGTCTTTACATGAAAGCGTTTACATGAGACTTCCGACTG
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ATTCTTTTGGCAGTTCTGATAAGCTTCTGAAAGTTCTGTGTAACAGAAAGCCTGTTTCAGAAATCTG
GAGCTGGCACTGTGGAGACCACACACCCTTTGGGAAAGCTCTTGTCTCTTCTTCCCCACTACCTCTTA
TTTATTTGGTGTGTTGCTGAATGCTGGTACTATTGTGACCACAGGCTGGTGTGTAAGTGGTAAAACCTG
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GCATACGCCTCTGTTCATGTCAGCTTATATGTGACACTGCAGCAGAAAGGCTCTGAAGTCCAAAGAG
TTTCTGCAAAGTGTATGTGACCATCATTTCCAGGCCATTAGGGTTGCCTCACTGTAGCAGTTCTAGG
CTACCAGAAGAGGGGCGAGCTTTTTTCATACCAATTCCAACCTTTCAGGGGCTGACTCTCCAGGGAGCTGAT
GTCATCACACTCTCCATGTTAGTAATGGCAGAGCAGTCTAAACAGAGTCCGGGAGAATGCTGGCAAAGG
CTGGCTGTGTATACCCACTAGGCTGCCCCAGTCTCCGAGAGATGACACTAGTCAGAAAATTGGCAG
TGGCAGAGAATCCAAACTCAACAAGTGCTCCTGAAAGAAACGCTAGAAGCCTAAGAACTGTGGTCTGGT
GTTCCAGCTGAGGAGGGGATTTGGTAGGAAGGAGCCAGTGAAGTGGCTTTCTGTTTCTATCTTTC
ATTAAGAAAGAAATAGAAGGATTCAGTCATAAAGAGGTAAAAACTGTCACGGTACGAAATCTTAGTGCC
ACGGAGGCTCGAGCAGAGAGAATGAAAGTCTTTTTTTTTTTTTTTTTTTTTTTTAGCATGGCAATAAATA
TTCTAGCATCCCTAACTAAAGGGGACTAGACAGTTAGAGACTCTGTCACCCTAGCTATACCAGCAGAAA
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TTCAGCTTTGTCCAAAGGAAAGCTTAAACCCAATACAGTCTAGTTTCTGGTCCGTTTTAGAAAAGG
AAAACGTGAACAACTTAGAAAGGGAAGGAAATCCCATCAGTGAATCCTGAAACTGGTTTTAAGTGCTT
TCCTTCTCCTCATGCCAAGAGATCTGTGCCATAGAACAAGATACCAGGCACTTAAAGCCTTTTCTGTG
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-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: [NM_000368.5](#)

Summary:

This gene is a tumor suppressor gene that encodes the growth inhibitory protein hamartin. The encoded protein interacts with and stabilizes the GTPase activating protein tuberin. This hamartin-tuberin complex negatively regulates mammalian target of rapamycin complex 1 (mTORC1) signalling which is a major regulator of anabolic cell growth. This protein also functions as a co-chaperone for Hsp90 that inhibits its ATPase activity. This protein functions as a facilitator of Hsp90-mediated folding of kinase and non-kinase clients, including Tsc2 and thereby preventing their ubiquitination and proteasomal degradation. Mutations in this gene have been associated with tuberous sclerosis. [provided by RefSeq, Apr 2018]

Locus ID:

7248

MW:

75.7