

## Product datasheet for **SC212397**

### alpha Actinin 4 (ACTN4) (NM\_004924) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	alpha Actinin 4 (ACTN4) (NM_004924) Human 3' UTR Clone
Symbol:	alpha Actinin 4
Synonyms:	ACTININ-4; FSGS; FSGS1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_004924
Insert Size:	2000 bp



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**Insert Sequence:** >SC212397 3'UTR clone of NM\_004924  
 The sequence shown below is from the reference sequence of NM\_004924. 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
ACGGCCTTGATGGCGAGAGCGACCTGTGAGGCCCCAGAGACCTGACCCAACACCCCGACGGCCTCCA
GGAGGGGCTGGGCGAGCCACAGTCCCATTCCTCCACTCTGTATCTATGCAAAGCACTCTCTGCAGTC
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CAGGAGGTTCCCGGACAGGTTGGGAGACTTGGGGCCAGCGCTTCTGGTCTGGTAAATATGTATGAT
GTGTTGTGCTTTTTAAACCAAGGAGGGGCCAGTGGATTCCACAGCACAAACCGTCCCTTCCATGCCCT
GGGATGCCTCACCACACCAGGTCTCTTCTTTGCTCTGAGGTCCTTCAAGGCCTCCCAATCCAGGC
CAAAGCCCATGTGCCTTGTCCAGGAATGCCTGGCCATGCGAGGGGCCAGCAGAGGGGCCACCACC
ACCTGACGGCTGGGACCCAGCCCTCTCCCTCTCTGCTCCAGACTCACTTGCCATTGCCAGGA
GATGGCCCAACAAGACCCCGCTTTTGACAGCAGAGGAGCTGAGTTGGCAGACCGGGCCCCCTGAACC
GCACCCATCCCACAGCCCGGCTTGTCTTGTCTGGCCTCACGTGTCTCAGATTTTCTAAGAACCAA
AAAAAAAAAGGAAAAAAAAACAAAAACAACAAAAACAAAAAAAAAAAAAAAAATCAAAAACAAAAAA
CTATAAAAGAAAGAATTAAAACTTTAGAGAACTACTATTTACTTTATTAACCTACGGATTTATTA
TATAAATATATATACCTAGCAACATATCTCTGCCGTCTCTCCTGCTCTCATAATGAAGACATAGCCG
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CACCTTCTAGGAGAGCCAGGGCAGAGCTAGCACTGTCTTAAGCTGTCAACGTGGACTAGCTCGTGTGAT
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CCGTGAGCAGTGAGGGCCAGAGACTAGCCCCAGACAGGTGGATGCCAGAGAGAGTGGCACCATGCCAG
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GCAGGACAGAGCCTGAGCCACCCTGTCCCTCCACCTGGCTCACCTGTCTGTGGGTGAGGCAGATGACC
CCCTCACCCCATCCAGGTGCTGGCTGCAGTGGCCTGTGCAGAGAGGGGCAGGGTGAAGTCCACCAGT
CCCGTACCCCTTCCCCCATGCCCCACCATGCCGGGGTGGTACTCACAGAAGATGCAGGTGAGGTGGG
CCACACAGGACACGAACCGCTCGAAGTCCACACGACAGCGGCTATCCCGGTAGCGGCTGGTGAAGGTCT
GGGTGAGTGGTGTTCAGGTGGAAGCCTAGGGGGAGGCTGCTTCTGAGCCAGTGGCCACAGGGAAC
CCACCTTGGCATTGCATCCACCCACCTCCTCAGGGAGGACATGAATGCCACAGGGTGTACACCCC
AACTCTGCCCCATCCCGGCAGGGTGAAGTACAGGCTGATCCCTTCAATCCTCTGGGCTGTTTCTCAT
ACGCGTAAAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
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\\_004924.6](#)

**Summary:**

Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis. [provided by RefSeq, Jul 2008]

**Locus ID:**

81

**MW:**

72.9