

Product datasheet for **SC113375**

Matrin 3 (MATR3) (NM_018834) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Matrin 3 (MATR3) (NM_018834) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Matrin 3 |
| Synonyms: | ALS21; MPD2; VCPDM |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC113375 sequence for NM_018834 edited (data generated by NextGen Sequencing)

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ATGTCCAAGTCATTCCAGCAGTCATCTCTCAGTAGGGACTCACAGGGTCATGGGCGTGAC
CTGTCTGCGGCAGGAATAGGCCTTCTTGCTGCTGCTACCCAGTCTTTAAGTATGCCAGCA
TCTCTTGAAGGATGAACCAGGGTACTGCACGCCTTGCTAGTTAATGAATCTTGAATG
AGTTCTTCATTGAATCAACAAGGAGCTCATAGTGCAGTCTTCTGCTAGTACTTCTTCC
CATAATTTGCAGTCTATATTTAACATTGGAAGTAGAGGTCCACTCCCTTTATCTTCTCAA
CACCGTGGAGATGCAGACCAGGCCAGTAACATTTTGGCCAGCTTTGGTCTGTCTGCTAGA
GACTTAGATGAACTGAGTCGTTATCCAGAGGACAAGATTACTCCTGAGAATTTGCCCAA
ATCCTTCTACAGCTTAAAAGGAGGAGAAGTGAAGAAGGCCCTACCTTGAGTTATGGTAGA
GATGGCAGATCTGCTACACGGGAGCCACCATACAGAGTACCTAGGGATGATTGGGAAGAA
AAAAGGCACTTTAGAAGAGATAGTTTTGATGATCGTGGTCTAGTCTCAACCCAGTGCTT
GATTATGACCATGGAAGTCGTTCTCAAGAATCTGGTTATTATGACAGAATGGATTATGAA
GATGACAGATTAAGAGATGGAGAAAGGTGATGGGATGATCTTTTTTTGGTGAGACCTCG
CATAACTATCATAAATTTGACAGTGAGTATGAGAGAATGGGACGTGGTCTGGCCCTTA
CAAGAGAGATCTCTTTGAGAAAAAGAGAGGCGCTCCTCCAAGTAGCAATATTGAAGAC
TTCCATGGACTCTTACCGAAGGGTTATCCCATCTGTGCTCTATATGTGATTTGCCAGTT
CATTCTAATAAGGAGTGGAGTCAACATATCAATGGAGCAAGTCACAGTCGTGATGCCAG
CTTCTTCTTGAATCTACCCAGAATGGAATCCTGACAATGATACAGGACACACAATGGGT
GATCCATTTCATGTTGCAGCAGTCAAAATCCAGCACCAGGAATCTGGGACCTCCACCT
CCCTCATTTTCATCTTGGGGGACCAGCAGTTGGACCAAGAGGAAATCTGGGTGCTGGAAT
GGAACCTGCAAGGACCTAGACACATGCAGAAAGCAGAGTGGAACTAGCAGAGTTGTT
CACATATGGATTTTCAACGAGGAAAACTTGAGATACCAGTATTACAGCTGGTAGAA
CCATTTGGAGTCATTTCAAATCATCTGATTCTAAATAAAATTAATGAGGCATTTATTGAA
ATGGCAACCACAGAGGATGCTCAGGCCGAGTGGATTATTACACAACCACACCAGCGTTA
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GGGAGATGTGTGAAGTTGACCTGTCTGAGAAATATAAAAACTGTTCTGAGGATTCGA
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GATGACCAGACAGAGCAGGAACCTAATATGCTTCTTGAATCTGAAGATGAGCTACTTGTA
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ACAGAACCAGGTGCTGAATCTTCTGAGAACGCTGATGATCCCAACAAAGATACAAGTGAA
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ATTGGACCATATCAGCCCAATGTTCTGTTGGTATAGACTATGTGATACCTAAAACAGGG
TTTTACTGTAAGCTGTGTTCACTCTTTTATACAAATGAAGAAGTTGCAAAGAATACTCAT
TGCAGCAGCCTTCTCATTATCAGAAATTAAGAAATTTCTGAATAAATTGGCAGAAGAA
CGCAGACAGAAGAAGGAAACTTAA

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Clone variation with respect to NM_018834.5

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018834 unedited
 TTGTAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGTGGGAGTCTCCGCGT
 CCCGCTCGCTGGGAGAGAGGTACCTCTCCTTTCCCTCTCCCTTTCCCTAAGAGTTGTCT
 GCTGGTCTCAGCTTGAAGAAGATTCTGCAGTCCTTATTGATCCTTTTCTTGGCGTTAC
 CATTTTTGAAGCAAAGTTAACCTAGCTTTCTAGTTTGAAGTCTTTTGGCCGCTTTA
 AAAAAATTTTTTTTTTAAATCTATAAAATAGACAAGAGCTAGTTCTACAATGCCAAGT
 CATTCCAGCAGTCATCTCTCAGTAGGGACTCACAGGGTCATGGGCGTGACCTGTCTGCCG
 CAGGAATAGGCCTTCTTGTCTGCTACCCAGTCTTTAAGTATGCCAGCATCTCTTGAA
 GGATGAACCAGGGTACTGCACGCCTTGCTAGTTTAAATGAATCTTGAATGAGTTCTCAT
 TGAATCAACAAGGAGCTCATAGTGCAGTCTTCTGCTAGTACTTCTCCATAATTTGC
 AGTCTATATTTAACATTGGAAGTAGAGTCCACTCCCTTTATCTTCTCAACACCGTGGAG
 ATGCAGACCAGGCCAGTAACATTTTGGCCAGCTTTGGTCTGTCTGCTAGAGACTTAGATG
 AACTGAGTCGTTATCCAGAGGACAAGATTACTCCTGAGAAATTTGCCCANATCCTCTAC
 AGCTTAAAGGAGGAGAACTGAAGAAGGCCCTACCTTGAGTTATGGTAGAGATGGCAGATC
 TGCTACCGGGAGCCACCTACAGAGTACCTAGGATGATTGGGAAGAAAAAGCCTTTAAAG
 AGATAGNNTTGATGATCGGGNCCTAGTCTCAACCAAGTCTTGATATACCCTGGNAAGTC
 GTCTCAGAATCTGGGTATATGACGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018834 unedited
 AACCCCTGTCTNTGNNACCGCGCCGCTTTTTNANGATCGNGTTTTTTTTTTTTTTTTTT
 TGGTTTTGTCTTTATTGGAAGGAATAAAAGTTGACATTTCTTTGAACTTGGAACTACT
 AAATTTCATTTTCCAAATGGTTCTACATTTTTTCTTAGTGGTCAAGTTGCTTAAAGT
 AGCTTAGGAAGTCAATCTTACAAAGTACTTCTGTCTGTTGCCATTCTGATAAAACAAAA
 ACTATTCAATTAACCTAATGTGTATTTTTTGGCTATAACACTTAACACATGAACA
 GACATCTATTATTTCTCCACTAAAACAAAAGAGTACAATAGTTTTCTTCTAACTATCAGT
 ATTGTATTTAAAAAGGTTAACATTAATAAAACAAAGAACCATATTTTTCTTTGAAATCATT
 AAATCTCCTTGACATCTTAAGTTTCTTCTTCTGCTGCGTTCTTCTGCCAATTTATTC
 AGAAATTTCTTTAATTTCTGATAATGAGGAAGGCTGCTGCAATGAGTATCTTTGCAACT
 TCTTCATTTGTATAAAAGAGTGAACACAGCTTACAGTAAAACCTGTTTTAGGTATCACA
 TAGTCTATACCAACAGGAACATTGGGCTGATATGGTCCAATTCTATACTCATCTGGGAT
 GTATAGTCGTCCTTGTCTCATCACTTTGACCATCTGCGTTTTCACTTGATCTTTGNTG
 GGATCATCAGCGTTCTCAGAAGATTCACACCTGGCTCTGGGGTTTCTCATTTTTAATTC
 CATTTTTCAACGCTGCTTTCGTTTCTTGATCAAGTTCCTCGAATCTGTCACCTTTTTAAGC
 TTTTTTTTGTGCTGCTGAAACACTTCCATCTTTTTTTCACAGNTTACCTGAAGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_018834

Insert Size:

1360 bp

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_018834.4](#), [NP_061322.2](#)

RefSeq Size: 3921 bp

RefSeq ORF: 2544 bp

Locus ID: 9782

UniProt ID: [P43243](#)

Cytogenetics: 5q31.2

Domains: RRM, ZnF_U1

Gene Summary: This gene encodes a nuclear matrix protein, which is proposed to stabilize certain messenger RNA species. Mutations of this gene are associated with distal myopathy 2, which often includes vocal cord and pharyngeal weakness. Alternatively spliced transcript variants, including read-through transcripts composed of the upstream small nucleolar RNA host gene 4 (non-protein coding) and matrin 3 gene sequence, have been identified. Pseudogenes of this gene are located on chromosomes 1 and X. [provided by RefSeq, Aug 2013]
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-4 encode the same isoform (a). 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.