

Product datasheet for **RG231311**

Matrin 3 (MATR3) (NM_001194956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matrin 3 (MATR3) (NM_001194956) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MATR3
Synonyms:	ALS21; MPD2; VCPDM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231311 representing NM_001194956
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTAGGAGCGCAGTGGCGGCGCAACACGCTTCTAGGGCGGCGGAGGAGTGGAGTCAACATATCAATG
 GAGCAAGTCACAGTCGTCGATGCCAGCTTCTTCTTGAATCTACCCAGAATGGAATCCTGACAATGATAC
 AGGACACACAATGGGTGATCCATTCATGTTGCAGCAGTCTACAAATCCAGCACCGAATCTGGGACCT
 CCACCTCCCTCATTTTCATCTTGGGGACCAGCAGTTGGACCAAGAGGAAATCTGGGTGCTGGAAATGGAA
 ACCTGCAAGGACCTAGACACATGCAGAAAGGCAGAGTGGAAACTAGCAGAGTTGTTACATCATGGATTT
 TCAACGAGGGAAAAAATTGAGATACCAGCTATTACAGCTGGTAGAACCTTTGGAGTCATTTCAAATCAT
 CTGATTCTAAATAAAATTAATGAGGCATTTATTGAAATGGCAACCACAGAGGATGCTCAGGCCGAGTGG
 ATTATTACACAACCACACAGCGTTAGTATTTGGCAAGCCAGTGAGAGTTCATTTATCCCAGAAGTATAA
 AAGAATAAAGAAACCTGAAGGAAAGCCAGATCAGAAGTTTGATCAAAAGCAAGAGCTTGGACGTGTGATA
 CATCTCAGCAATTTGCCGCATTCTGGCTATTCTGATAGTCTGTTCTCAAGCTTGTCTGAGCCTTATGGGA
 AAATAAAGAATTACATATTGATGAGGATGAAAAGTCAGGCTTTTATTGAGATGGAGACAAGAGAAGATGC
 AATGGCAATGGTTGACCATTTGTTTGAAGAAAGCCCTTTGGTTTCAGGGGAGATGTGTGAAGGTTGACCTG
 TCTGAGAAATATAAAAACTGGTTCTGAGGATCCAAACAGAGGCATTGATTTACTGAAAAAGATAAAT
 CCCGAAAAAGATCTTACTCTCCAGATGGCAAAGAACTCCAAGTGATAAGAAATCCAAAACCTGATGGTTC
 CCAGAAGACTGAGAGTTCAACCGAAGGTAAGAACAAGAAGAGAAGTCCGGTGAAGATGGTGAGAAAAGAC
 ACAAAGGATGACCAGACAGAGCAGGAACCTAATATGCTTCTTGAATCTGAAGATGAGTACTTGTAGATG
 AAGAAGAAGCAGCAGCACTGCTAGAAAGTGGCAGTTTCAGTGGAGACGAGACCGATCTTGGTAATTTAGG
 TGATGTGGCTTCTGATGGGAAAAAGGAACCATCAGATAAAGCTGTGAAAAAAGATGGAAGTGTTCAGCA
 GCAGCAAAGAAAAAGCTTAAAAAGGTGGACAAGATCGAGGAACCTGATCAAGAAAACGAAGCAGCGTTGG
 AAAATGGAATTAATAATGAGGAAAAACAGAACCGGTGCTGAATCTTCTGAGAACGCTGATGATCCCAA
 CAAAGATACAAGTAAAAACGAGATGGTCAAAGTATGAGAAACAAGGACGACTATACAATCCCAGATGAG
 TATAGAATTGGACCATATCAGCCCAATGTTCTGTTGGTATAGACTATGTGATACCTAAAACAGGGTTTT
 ACTGTAAGCTGTGTTCACTCTTTTATACAAATGAAGAAGTTGCAAAGAATACTCATTGCAGCAGCCTTCC
 TCATTATCAGAAATTAAGAAATTTCTGAATAAATGGCAGAAGAACGCAGACAGAAGAAGGAAACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231311 representing NM_001194956
 Red=Cloning site Green=Tags(s)

MLGAQWRRNQPSRAAEWSEQHINGASHSRRCQLLLEIYPEWNPNDTGHMTGDPFMLQQSTNPAGILGP
 PPPSFHLGGPAVGPRGNL GAGNGLQGPRHMQGRVETSRVVHIMDFQRGKNLRYQLQLVEPFGVSNH
 LILNKINEAFIEMATTEDAQAAYDYTTTPALVFGKPVVHLSQKYKRIKKPEGKPDQKFDQKQELGRVI
 HLSNLPHSGYSDSAVLKLAEPYGIKKNYILMRMKSQAFIEMETREDAMAMVDHCLKKALWFQGRCKVVDL
 SEKYYKLVLRIPNRGIDLLKKDKSRKRSYSPDGKESPSDKKSKTDGSQKTESSTEGKEQEEKSGEDGEKD
 TKDDQTEQEPNMLLESEDELLVDEEEAAALLESGSSVGDETDLANLGDVASDGKKEPSDKAVKKGDSASA
 AAKKKLKKVDKIEELDQENEAALENGIKNEENTEPGAESSENADDPNKDTSENADGQSDENKDDYIPDE
 YRIGPYQPNVPVGIIDYVVPKTFYCKLCSLFYTNEEVAKNTHCSSLPHYQKLLKFLNKLAEERRQKKET

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001194956
ORF Size:	1677 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_001194956.1 , NP_001181885.1
RefSeq Size:	4193 bp
RefSeq ORF:	1680 bp
Locus ID:	9782
UniProt ID:	P43243
Cytogenetics:	5q31.2
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]