

## Product datasheet for **SC336525**

### Matrin 3 (MATR3) (NM\_001282278) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Matrin 3 (MATR3) (NM_001282278) Human Untagged Clone
Tag:	Tag Free
Symbol:	MATR3
Synonyms:	ALS21; MPD2; VCPDM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC336525 representing NM\_001282278.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

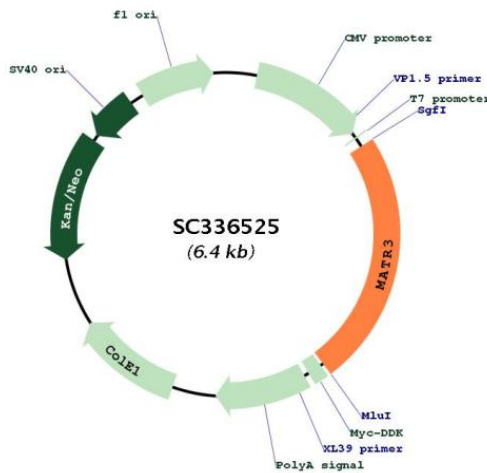
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**Restriction Sites:**

Sgfl-MluI

**Plasmid Map:**



**ACCN:**

NM\_001282278

<b>Insert Size:</b>	1530 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001282278.1</a></u>
<b>RefSeq Size:</b>	4515 bp
<b>RefSeq ORF:</b>	1530 bp
<b>Locus ID:</b>	9782
<b>UniProt ID:</b>	<u><a href="#">P43243</a></u>
<b>Cytogenetics:</b>	5q31.2
<b>MW:</b>	56.7 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (6) lacks an exon which contains a portion of the 5' UTR and 5' coding region including the start codon, compared to variant 1. These differences cause translation initiation at a downstream start codon and result in an isoform (c) with a shorter N-terminus, compared to 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.</p>