

## Product datasheet for SC124297

### ECM1 (NM\_022664) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ECM1 (NM_022664) Human Untagged Clone
Tag:	Tag Free
Symbol:	ECM1
Synonyms:	URBWD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124297 sequence for NM_022664 edited (data generated by NextGen Sequencing)

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ATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTTGGCTGTTGCTTCTGCTGCC
TCTGAGGGAGGCTTACAGGCTACAGGACAGAGGAGCTGAGGCCAGAGCACTTTCAAGAA
GTTGGCTACGCAGCTCCCCCTCCCCACCCTATCCCGAAGCCTCCCATGGATCACCCCT
GACTCCTCTCAGCATGGCCCTCCCTTTGAGGGACAGAGTCAAGTGCAGCCCCCTCCCTCT
CAGGAGGCCACCCCTCTCCAACAGGAAAAGCTGTACCTGCCAACTCCCTGCTGAAAAG
GAAGTGGGTCCCCCTCTCCCTCAGGAAGCTGTCCCCCTCAAAAAGAGCTGCCCTCTCTC
CAGCACCCCAATGAACAGAAGGAAGGAATGCCAGCTCCATTTGGGGACCAGAGCCATCCA
GAACCTGAGTCTGGAATGCAGCCAGCACTGCCAACAGGACCGTCCCAAGGGGCTGG
GGCCACCGGCTGGATGGCTTCCCCCTGGGCGGCCTTCTCCAGACAATCTGAACCAAATC
TGCTTCCCTAACCGTCAGCATGTGGTATATGGTCCCTGGAACCTACCACAGTCCAGCTAC
TCCCACCTCACTCGCCAGGGTGAGACCCTCAATTTCTGGAGATTGGATATTTCCCGCTGC
TGCCACTGCCGCAGCCACACAAACCGCCTAGAGTGTGCCAACTTGTGTGGGAGGATACC
CTTGACAAATACTGTGACCGGGAGTATGCTGTGAAGACCCACCACCCTTGTGTTGCCGC
CACCCCTCCAGCCCTACTCGGGATGAGTGTCTTGGCCGTGGGCTCCTTACCCCAACTAT
GACCGGGACATCTTGACCATTGACATCAGTCGAGTCACCCCAACCTCATGGGCCACCTC
TGTGAAAACCAAAGAGTTCTCACCAAGCATAAACAATATTCCTGGGCTGATCCACAACATG
ACTGCCCGTGTGTGACCTGCCATTTCCAGAACAGGCCTGTGTGAGAGGAGGAGAAA
TTAACCTTCATCAATGATCTGTGTGGTCCCCGAGTAACATCTGGCGAGACCCTGCCTC
TGCTGTTACCTGAGTCTGGGGATGAACAGGTCAACTGCTTCAACATCAATTATCTGAGG
AACGTGGCTCTAGTGTCTGGAGACTGAGAACGCCAAGGGCCAGGGGGAGCAGGGCTCA
ACTGGAGGAACAAATATCAGCTCCACCTCTGAGCCCAAGGAAGAATGA

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Clone variation with respect to NM\_022664.2

389 c=>t;868 g=>a



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_022664 unedited AAAAGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGCTTCGTG GCCGGCCCTTCACATCCAGACTTGCCTGAGAGGACCCACCTCTGAGTGTCCAGTGGTCAG TTGCCCCAGGATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTTGGCTGTTGC TTCTGCTGCCTCTGAGGGAGGCTTACGGCTACAGGACAGAGGCAGCTGAGGCCAGAGCA CTTTCAAGAAGTTGGCTACGCAGCTCCCCCTCCCCACCCTATCCCGAAGCCTCCCCAT GGATCACCTGACTCCTCTCAGCATGGCCCTCCCTTTGAGGGACAGAGTCAAGTGCAGCC CCCTCCCTCTCAGGAGGCCACCCCTCTCCAACAGGAAAAGCTGCTACCTGCCCAACTCCC TGCTGAAAAGGAAGTGGGTCCCCCTCTCCCTCAGGAAGCTGTCCCCCTCAAAAAGAGCT GCCCTCTCTCCAGCACCCCAATGAACAGAAGGAAGGAATGCCAGCTCCATTTGGGGACCA GAGCCATCCAGAACCTGAGTCTGGAATGCAGCCAGCACTGCCAACAGGACCGTCCCA AGGGGGCTGGGGCCACCGGCTGGATGGCTTCCCCCTGAGCGGCCTTCTCCAGACAATCT GAACCAATCTGCCTTCTAACCCTCAGCATGTGGTATATGGTCCCTGGAACCTACCACA GTCCAGCTACTCCACCTCACTGCCAGGGTGAACCCCTATTTCTGGAGATTGGATAT TCCCGCTGCTGCCACTGCCGAGCCACACAAACCGCTAGAGTGTGCCAACTTGTGTGG GGAGAAGCAATGAGCCCGATCTGTGGAGCCGAGTTCTCGGTGAGACCCGACCCCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022664
<b>Insert Size:</b>	2000 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>	<a href="#">NM_022664.1</a> , <a href="#">NP_073155.1</a>
<b>RefSeq Size:</b>	1462 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	1893
<b>UniProt ID:</b>	<a href="#">Q16610</a>
<b>Cytogenetics:</b>	1q21.2
<b>Protein Families:</b>	Secreted Protein, Transmembrane

**Gene Summary:**

This gene encodes a soluble protein that is involved in endochondral bone formation, angiogenesis, and tumor biology. It also interacts with a variety of extracellular and structural proteins, contributing to the maintenance of skin integrity and homeostasis. Mutations in this gene are associated with lipoid proteinosis disorder (also known as hyalinosis cutis et mucosae or Urbach-Wiethe disease) that is characterized by generalized thickening of skin, mucosae and certain viscera. Alternatively spliced transcript variants encoding distinct isoforms have been described for this gene. [provided by RefSeq, Feb 2011]

Transcript Variant: This variant (2) lacks an in-frame coding exon compared to variant 1, resulting in a shorter isoform (2) missing an internal protein segment compared to isoform 1.