

## Product datasheet for **RC234451**

### **ECM1 (NM\_001202858) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ECM1 (NM_001202858) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ECM1
Synonyms:	URBWD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234451 representing NM\_001202858  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTTGGCTGTTGCTTCTGCTGCCTCTGAGGGAG  
 GCTTACAGGCTACAGGACAGAGGAGCTGAGGCCAGAGCACTTTCAAGAAGTTGGCTACGAGCTCCCC  
 CCCCCACCCCTATCCCGAAGCCTCCCCATGGATCACCCCTGACTCCTCTCAGCATGGCCCTCCCTTTGAG  
 GGACAGAGTGGAAAGGAGGGAAGAGGCCCTCGCCCCACTCCCAGCCCTGGCTAGGAGAAAGGGTGGCT  
 GCTCACACATTCCCCCTTCTATAGTGCAGCCCCCTCCCTCTCAGGAGGCCACCCCTCTCCAACAGGAAAA  
 GCTGCTACCTGCCAACTCCCTGCTGAAAAGGAAGTGGTCCCCCTCTCCCTCAGGAAGCTGTCCCCCTC  
 CAAAAAGAGCTGCCCTCTCTCCAGCACCCCAATGAACAGAAGGAAGAACGCCAGCTCCATTTGGGGACC  
 AGAGCCATCCAGAACCTGAGTCTGGAATGCAGCCAGCACTGCCAACAGGACCGGTCCCAAGGGGGCTG  
 GGGCCACCGGCTGGATGGCTTCCCCCTGGGCGCCTTCTCCAGACAATCTGAACCAAATCTGCCTTCT  
 AACCGTACAGCATGGTATATGGTCCCTGGAACCTACCACAGTCCAGCTACTCCCACCTCACTCGCCAGG  
 GTGAGACCCTCAATTTCCCTGGAGATTGGATATCCCGCTGCTGCCACTGCCGAGCCACACAAAACCGCT  
 AGAGTGTGCCAACTTGTGTGGGAGGAAGCAATGAGCCGATTCTGTGAGGCCGAGTTCTCGGTCAAGACC  
 CGACCCCACTGGTGTGCACGCGCAGGGGGAGGCTCGGTTCTCTGCTTCCAGGAGGAAGCTCCCCAGC  
 CACTACCAGCTCCGGGCTGCCCCAGCCATCAGCCTGATATTTCTCGGGTCTTGAGCTGCCTTTCC  
 TCCTGGGTGCCACATTGGACAATATCAAGAACATCTGCCACCTGAGGCGCTTCCGCTCTGTGCCACGC  
 AACCTGCCAGCTACTGACCCCTACAAAGGGAGCTGCTGGCACTGATCCAGCTGGAGAGGGAGTTCCAGC  
 GCTGTGCCGCCAGGGGAACAATCACACTGTACATGGAAGGCCGAGGAGGATAACCTTGACAAACTG  
 TGACCGGAGATGCTGTGAAGACCCACCACCTTGTGTTGCCGCCACCTCCCAGCCCTACTCGGGAT  
 GAGTGCTTGGCCGTCGGGCTCCTTACCCAACTATGACCGGACATCTTGACATTGACATCGGTGAG  
 TCACCCCAACCTCATGGCCACCTCTGTGAAACCAAAGAGTTCTACCAAGCATAAACATATTCTGG  
 GCTGATCCACAACATGACTGCCCGCTGTGTGACCTGCCATTTCCAGAACAGGCTGCTGTGAGAGGAG  
 GAGAAATTAACCTTCATCAATGATCTGTGTGGTCCCCGACGTAACATCTGGGAGACCCTGCCCTGCT  
 GTTACCTGAGTCTGGGATGAACAGGTCAACTGCTTCAACATCAATTATCTGAGGAACGTGGCTTAGT  
 GTCTGGAGACTGAGAACGCCAAGGGCCAGGGGAGCAGGGCTCAACTGGAGGAACAAATATCAGCTCC  
 ACCTCTGAGCCAAGGAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234451 representing NM\_001202858  
 Red=Cloning site Green=Tags(s)

MGTTARAALVLTYLAVASAAASEGGFTATGQRQLRPEHFQEVGYAAPPSPPLSRSLPMDHPDSSQHGPPE  
 GQSGKEGRGPRPHSQPWLGERVGCSHIPPSIVQPPPSQEATPLQQEKLLPAQLPAEKEVGPPLPQEAVPL  
 QKELPSLQHPNEQKEGTPAPFGDQSHPEPESWNAAQHCQQDRSQGGWGHRLDGFPPGRPSDNLNQICLP  
 NRQHVYGPWNLQSSSYSHLTRQGETLNFLEIGYSRCCCHRSHNRECAKLVWEEAMSRFCEAEFSVKT  
 RPHWCCTRQGEARFSCFQEEAPQPHYQLRACPSHQPDISSLELFPFPGVPTLDNIKNICHLLRRFRSVPR  
 NLPATDPLQRELLALIQLEREFQRCCRQNNHTCTWKAWEDTLDKYCDREYAVKTHHLLCCRHPPSPTRD  
 ECFARRAPYPNYDRDILTDIGRVTPNLMGHLGQNRVLTKHKHIPGLIHNMTRCCDLPFPEQACCAEE  
 EKLTFINDLGPRRNIWRDPALCCYLPSPGDEQVNCFNINYLRNVALVSGDTENAKGQGEQSTGGTNISS  
 TSEPKKE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001202858

**ORF Size:** 1701 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:**
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\\_001202858.2](#)

**RefSeq Size:** 2242 bp

**RefSeq ORF:** 1704 bp

**Locus ID:** 1893

**UniProt ID:** [Q16610](#)

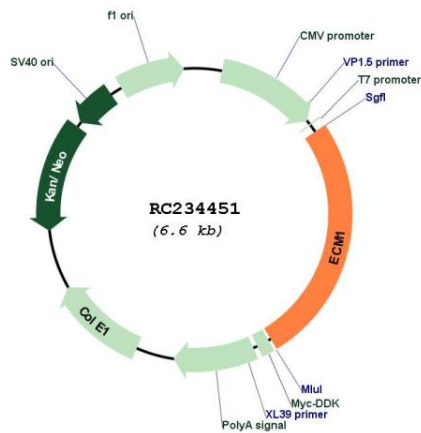
**Cytogenetics:** 1q21.2

**Protein Families:** Secreted Protein, Transmembrane

**MW:** 64 kDa

**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 lipid 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]

**Product images:**



Circular map for RC234451