

## Product datasheet for RC219532

### ECM1 (NM\_022664) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: ECM1 (NM\_022664) 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)  
 ORF Nucleotide Sequence: >RC219532 representing NM\_022664  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTTGGCTGTTGCTTCTGCTGCCTCTGAGGGAG  
 GCTTCACGGCTACAGGACAGAGGAGCTGAGGCCAGAGCACTTTCAAGAAGTTGGCTACGCGACTCCCC  
 CCCCCACCCCTATCCCGAAGCCTCCCCATGGATCACCTGACTCCTCTCAGCATGGCCCTCCCTTTGAG  
 GGACAGAGTCAAGTGCAGCCCCCTCCCTCTCAGGAGGCCACCCCTCTCCAACAGGAAAAGCTGCTACCTG  
 CCCAACTCCCTGTGAAAAGGAAGTGGTCCCCCTCTCCCTCAGGAAGCTGTCCCTCCAAAAGAGCT  
 GCCCTCTCTCCAGCACCCCAATGAACAGAAGGAAGGAACGCCAGCTCCATTTGGGGACCAGAGCCATCCA  
 GAACCTGAGTCCCTGGAATGCAGCCAGCACTGCCAACAGGACCGTCCCAAGGGGGCTGGGGCCACCGGC  
 TGGATGGCTTCCCCCTGGGCGGCTTCTCCAGACAATCTGAACCAAATCTGCCTTCTTAACCGTCAGCA  
 TGTGGTATATGGTCCCTGGAACCTACCACAGTCCAGCTACTCCCACCTCACTCGCCAGGGTGAGACCCTC  
 AATTTCTGGAGATTGGATATCCCGCTGCTGCCACTGCCGAGCCACACAAACCGCCTAGAGTGTGCCA  
 AACTTGTGTGGGAGGATACCCCTTGACAAATACTGTGACCGGGAGTATGCTGTGAAGACCCACCACCTT  
 GTGTTGCCGCCACCCTCCAGCCCTACTCGGGATGAGTGTCTTGGCCGTGGGCTCCTTACCCCAACTAT  
 GACCGGGACATCTTGACCATTGACATCGGTGAGTCCAGTCAACCCCAACCTCATGGGCCACCTCTGTGAAACC  
 AAAGAGTTCTCACCAAGCATAAAACATATTCCTGGGCTGATCCACAACATGACTGCCCGCTGCTGTGACCT  
 GCCATTTCCAGAACAGGCTGCTGTGCAGAGGAGGAGAAATTAACCTTCAATGATCTGTGTGTGCTCC  
 CGACGTAACATCTGGCGAGACCCTGCCCTCTGCTGTTACCTGAGTCTGGGGATGAACAGGTCAACTGCT  
 TCAACATCAATTATCTGAGGAACGTGGCTCTAGTGTCTGGAGACACTGAGAACGCCAAGGCCAGGGGGA  
 GCAGGGCTCAACTGGAGGAACAAATATCAGCTCCACCTCTGAGCCCAAGGAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219532 representing NM\_022664  
Red=Cloning site Green=Tags(s)

MGTTARAALVLYLAVASAAASEGGFTATGQRQLRPEHFQEVGYAAPPSPPLSRSLPMDHPDSSQHGPFFE  
 GQSQVQPPPSQEATPLQQEKLLPAQLPAEKEVGPPLPQEAVPLQKELPSLQHPNEQKEGTPAPFGDQSHP  
 EPESWNAAQHCQQDRSQGGWGHRLDGFPPGRPSPDNLNQICLPNRQHVVYGPWNLQSSSYSHLTRQGETL  
 NFLEIGYSRCCHCRSHTNRLECAKLVWEDTLDKYCDREYAVKTHHHLLCCRHPSPTRDECFAARRAPYPNY  
 DRDILTIDIGRVTPLMGHLCGNQRVLTKKHKHIPGLIHNMTARCCDLPFPEQACCAEEKLTFFINDLCGP  
 RRNIWRDPALCCYLSPGDEQVNCFNINYLRNVALVSGDTENAKGQGEQGSGTGTNISSTSEPKEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_022664

**ORF Size:** 1245 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\\_022664.3](#)

**RefSeq Size:** 1786 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 1893

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

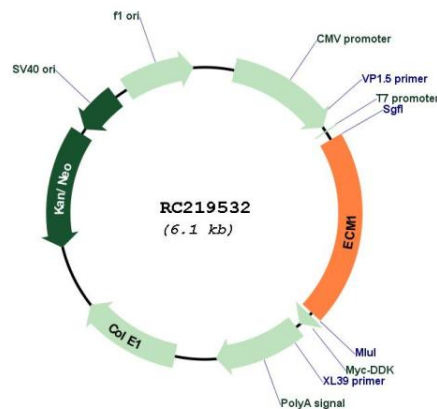
**Cytogenetics:** 1q21.2

**Protein Families:** Secreted Protein, Transmembrane

**MW:** 46.1 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 RC219532