

## Product datasheet for **RG234451**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ECM1 (NM_001202858) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ECM1
Synonyms:	URBWD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234451 representing NM\_001202858  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTTGGCTGTTGCTTCTGCTGCCTCTGAGGGAG  
 GCTTACAGGCTACAGGACAGAGGAGCTGAGGCCAGAGCACTTTCAAGAAGTTGGCTACGAGCTCCCC  
 CCCCCACCCCTATCCCGAAGCCTCCCCATGGATCACCTGACTCCTCTCAGCATGGCCCTCCCTTTGAG  
 GGACAGAGTGGAAAGGAGGGAAGAGGCCCTCGCCCCACTCCCAGCCCTGGCTAGGAGAAAGGGTGGCT  
 GCTCACACATTCCCCTTCTATAGTGCAGCCCCCTCCCTCTCAGGAGGCCACCCCTCTCCAACAGGAAAA  
 GCTGCTACCTGCCAACTCCCTGCTGAAAAGGAAGTGGTCCCCCTCTCCCTCAGGAAGCTGCCCCCTC  
 CAAAAAGAGTGCCTCTCTCCAGCACCCCAATGAACAGAAGGAAGAACGCCAGCTCCATTTGGGGACC  
 AGAGCCATCCAGAACCTGAGTCTGGAATGCAGCCAGCACTGCCAACAGGACCGGTCCCAAGGGGGCTG  
 GGCCACCGGCTGGATGGCTTCCCCCTGGCGGCCTTCTCCAGACAATCTGAACCAAATCTGCCTTCT  
 AACCGTACAGCATGGTATATGGTCCCTGGAACCTACCACAGTCCAGCTACTCCCACCTCACTCGCCAGG  
 GTGAGACCCTCAATTTCCCTGGAGATTGGATATCCCGCTGCTGCCACTGCCGAGCCACACAAAACCGCT  
 AGAGTGTGCCAACTTGTGTGGGAGGAAGCAATGAGCCGATTCTGTGAGGCCGAGTTCTCGGTCAAGACC  
 CGACCCCACTGGTGTGCACGCGCAGGGGGAGGCTCGTTTCTCTGCTTCCAGGAGGAAGCTCCCCAGC  
 CACTACCAGCTCCGGGCTGCCCCAGCCATCAGCCTGATATTTCTCGGGTCTTGAGCTGCCTTTCCC  
 TCCTGGGTGCCACATTGGACAATATCAAGAACATCTGCCACCTGAGGCGCTTCCGCTCTGTGCCACGC  
 AACCTGCCAGCTACTGACCCCTACAAAGGGAGCTGTGGCACTGATCCAGCTGGAGAGGGAGTTCCAGC  
 GCTGTGCCGCCAGGGGAACAATCACACCTGTACATGGAAGGCCGGGAGGATAACCCTTGACAAAATCTG  
 TGACCGGAGATGCTGTGAAGACCCACCACCTTGTGTTGCCGCCACCTCCCAGCCCTACTCGGGAT  
 GAGTGCTTGGCCGTCGGGCTCCTTACCCCAACTATGACCGGACATCTTGACCATTGACATCGGTGAG  
 TCACCCCAACCTCATGGCCACCTCTGTGAAACCAAAGAGTTCTACCAAGCATAAACATATTCTGG  
 GCTGATCCACAACATGACTGCCCGCTGTGTGACCTGCCATTTCCAGAACAGGCTGCTGTGCAGAGGAG  
 GAGAAATTAACCTTCATCAATGATCTGTGTGGTCCCCGACGTAACATCTGGCGAGACCCTGCCCTGCT  
 GTTACCTGAGTCTGGGATGAACAGGTCAACTGCTTCAACATCAATTATCTGAGGAACGTGGCTTAGT  
 GTCTGGAGACTGAGAACGCCAAGGGCCAGGGGAGCAGGGCTCAACTGGAGGAACAAATATCAGCTCC  
 ACCTCTGAGCCCAAGGAAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234451 representing NM\_001202858  
 Red=Cloning site Green=Tags(s)

MGTARAALVLTYLAVASAASEGFTATGQRQLRPEHFQEVGYAAPPSPPLSRSLPMDHPDSSQHGPFFE  
 GQSGKEGRGPRPHSQPWLGERVGCSHIPPSIVQPPPSQEATPLQQEKLLPAQLPAEKEVGPPLPQEA  
 VPLQKELPSLQHPNEQKEGTPAPFGDQSHPEPESWNAQHCQQDRSQGGWGHRLDGFPPGRPSDNLN  
 QICLPNRQHVYGPWNLPQSSYSHLTRQGETLNFLEIGYSRCHCRSHTNRLECAKLVWEEAMSRFCE  
 AEFVSKTRPHWCCTRQGEARFSCFQEEAPQPHYQLRACPSHQPDISSGLELPFPPGVPTLDNIKN  
 ICHLRRFRSVPRLNLPATDPLQRELLALIQLEREFQRCCRQNNHTCTWKAWEDTLDKYCDREYAVK  
 THHLCRRHPPSPTRDECFARRAPYPNYDRDILTDIGRVTPNLMGHLCGNQRVLTKHKHIPGLIHN  
 MTAARCCDLPFPEQACCAEEKLTFINDLCGPRRNIWRDPALCCYLSGDEQVNCFNINYLNRVALV  
 SGTENAKGQGEQSTGGTNISS TSEPKEE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**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

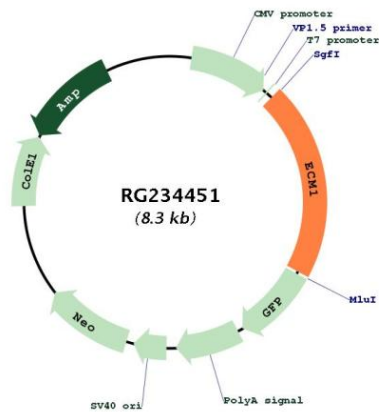
**UniProt ID:** [Q16610](#)

**Cytogenetics:** 1q21.2

**Protein Families:** Secreted Protein, Transmembrane

**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 RG234451