

Product datasheet for **RG201118**

ECM1 (NM_004425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ECM1 (NM_004425) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG201118 representing NM_004425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTTGGCTGTTGCTTCTGCTGCCTCTGAGGGAG
 GCTTCACGGCTACAGGACAGAGGAGCTGAGGCCAGGCACTTTCAAGAAGTTGGCTACGAGCTCCCC
 CCCCCACCCCTATCCCCAAGCCTCCCCATGGATCACCCCTGACTCCTCTCAGCATGGCCCTCCCTTTGAG
 GGACAGAGTCAAGTGCAGCCCCCTCCCTCTCAGGAGGCCACCCCTCTCCAACAGGAAAAGCTGCTACCTG
 CCCAACTCCCTGCTGAAAAGGAAGTGGTCCCCCTCTCCCTCAGGAAGCTGTCCCCTCCAAAAGAGCT
 GCCCTCTCTCCAGCACCCCAATGAACAGAAGGAAGGAATGCCAGCTCCATTTGGGGACCAGAGCCATCCA
 GAACCTGAGTCTGGAATGCAGCCAGCACTGCCAACAGGACCGTCCCAAGGGGGCTGGGGCCACCGGC
 TGGATGGCTTCCCCCTGGCGGCCCTTCCAGACAATCTGAACCAAATCTGCCTTCTAACCGTCAGCA
 TGTGGTATATGGTCCCTGGAACCTACCACAGTCCAGCTACTCCACCTCACTCGCAGGGTGAGACCCTC
 AATTTCTGGAGATTGGATATTCGGCTGCTGCCACTGCCGACGACACAAACCGCTAGAGTGTGCCA
 AACTTGTGTGGGAGGAAGCAATGAGCCGATTCTGTGAGGCCGAGTTCTCGGTCAAGACCCGACCCCACTG
 GTGCTGCACGCGGAGGGGGAGGCTCGGTTCTCCTGCTTCCAGGAGGAAGCTCCCGACCCACTACCGAG
 CTCCGGGCTGCCACAGCCATCAGCCTGATATTTCTCGGGTCTTGAGCTGCCTTTCCCTCTGGGGTGC
 CCACATTTGGACAATCAAGAACATCTGCCACCTGAGGCGCTTCCGCTCTGTGCCACGCAACCTGCCAGC
 TACTGACCCCTACAAAGGGAGCTGTGGCACTGATCCAGCTGGAGAGGGAGTCCAGCGCTGCTGCCGC
 CAGGGGAAACAATCACACCTGTACATGGAAGCCTGGGAGGATACCCTTGACAAATACTGTGACCGGGAGT
 ATGCTGTGAAGACCCACCACCTTGTGTTGCCGCCACCTCCAGCCCTACTCGGGATGATGCTTTGC
 CGGTCCGGCTCCTTACCCCAACTATGACCGGGACATCTTGACCATTGACATCAGTCGAGTACCCCCAAC
 CTCATGGGCCACCTCTGTGAAACCAAAGATTCTCACCAGCATAAACATATTCCTGGGCTGATCCACA
 ACATGACTGCCCGCTGCTGTGACCTGCCATTTCCAGAACAGCCTGCTGTGCAGAGGAGGAGAAATTAAC
 CTTTCATCAATGATCTGTGTGGTCCCGACGTAACATCTGGCGAGACCCTGCCCTCTGCTGTTACCTGAGT
 CCTGGGGATGAACAGGTCAACTGCTTCAACATCAATTATCTGAGGAACGTGGCTCTAGTGTCTGGAGACA
 CTGAGAACGCCAAGGGCCAGGGGAGCAGGGCTCAACTGGAGGAACAAATATCAGCTCCACCTCTGAGCC
 CAAGGAAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201118 representing NM_004425
 Red=Cloning site Green=Tags(s)

MGTTARAALVLTYLAVASAASEGFTATGQRQLRPEHFQEVGYAAPPSPPLSRSLPMDHPDSSQHGPPE
 GQSQVQPPPSQEATPLQQEKLLPAQLPAEKEVGPPLQEA VPLQKELPSLQHPNEQKEGMPAPFGDQSH
 EPESWNAAQHCQQDRSQGGWGHRLDGFPPGRPSDNLNQICLPNRQHVVYGPWNLQSSYSHLTRQGETL
 NFLEIGYSRCCHRSHTNRLECAKLVWEEAMSRFCEAEFSVKTRPHWCCTRQGEARFSCFQEEAPQPHYQ
 LRACPSHQPDISSGLELPFPPGVPTLDNIKNICHLRRFRSVPRNLPATDPLQRELLALIQLEREFQRCCR
 QGNNHTCTWKAWEDTLDKYCDREYAVKTHHHLCCRHPPSPTRDECFARRAPYPNYDRDILTIDISRVTPN
 LMGHLCGNQRVLTKHKH I PGLIHNMTARCCDLPFPEQACCAEEELTFINDLCGPRRNIWRDPALCCYLS
 PGDEQVNCFNINYLNRNALVSGDTENAKGQGEQGSTGGTNISSSTSEPKKE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004425

ORF Size: 1620 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_004425.2](#), [NP_004416.1](#)

RefSeq Size: 1837 bp

RefSeq ORF: 1623 bp

Locus ID: 1893

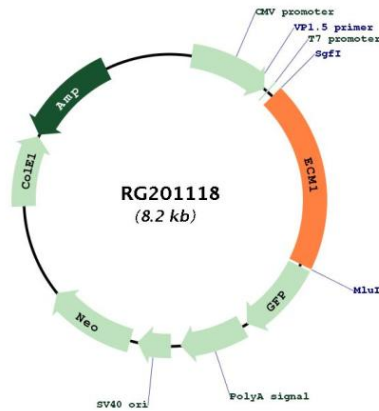
UniProt ID: [Q16610](#)

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 RG201118