OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG219532

ECM1 (NM_022664) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ECM1 (NM_022664) 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)

ORF Nucleotide Sequence:

>RG219532 representing NM_022664
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTTGGCTGTTGCTTCTGCTGCCTCTGAGGGAG
GCTTCACGGCTACAGGACAGAGGCAGCTGAGGCCAGAGCACTTTCAAGAAGTTGGCTACGCAGCTCCCCC
CTCCCCACCCCTATCCCGAAGCCTCCCCATGGATCACCCTGACTCCTCTCAGCATGGCCCTCCCTTTGAG
GGACAGAGTCAAGTGCAGCCCCCTCCCTCTCAGGAGGCCACCCCTCTCCAACAGGAAAAGCTGCTACCTG
CCCAACTCCCTGCTGAAAAGGAAGTGGGTCCCCCTCTCCCTCAGGAAGCTGTCCCCCTCCAAAAAGAGCT
GCCCTCTCTCCAGCACCCCAATGAACAGAAGGAAGGAACGCCAGCTCCATTTGGGGACCAGAGCCATCCA
GAACCTGAGTCCTGGAATGCAGCCCAGCACTGCCAACAGGACCGGTCCCAAGGGGGCTGGGGCCACCGGC
TGGATGGCTTCCCCCCTGGGCGGCCTTCTCCAGACAATCTGAACCAAATCTGCCTTCCTAACCGTCAGCA
TGTGGTATATGGTCCCTGGAACCTACCACAGTCCAGCTACTCCCACCTCACTCGCCAGGGTGAGACCCTC
AATTTCCTGGAGATTGGATATTCCCGCTGCTGCCACTGCCGCAGCCACACAAACCGCCTAGAGTGTGCCA
AACTTGTGTGGGAGGATACCCTTGACAAATACTGTGACCGGGAGTATGCTGTGAAGACCCACCACCACTT
GTGTTGCCGCCACCCTCCCAGCCCTACTCGGGATGAGTGCTTTGCCCGTCGGGCTCCTTACCCCAACTAT
GACCGGGACATCTTGACCATTGACATCGGTCGAGTCACCCCCAACCTCATGGGCCACCTCTGTGGAAACC
AAAGAGTTCTCACCAAGCATAAACATATTCCTGGGCTGATCCACAACATGACTGCCCGCTGCTGTGACCT
GCCATTTCCAGAACAGGCCTGCTGTGCAGAGGAGGAGAAATTAACCTTCATCAATGATCTGTGTGGTCCC
CGACGTAACATCTGGCGAGACCCTGCCCTCTGCTGTTACCTGAGTCCTGGGGATGAACAGGTCAACTGCT
TCAACATCAATTATCTGAGGAACGTGGCTCTAGTGTCTGGAGACACTGAGAACGCCAAGGGCCAGGGGGA
GCAGGGCTCAACTGGAGGAACAAATATCAGCTCCACCTCTGAGCCCAAGGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

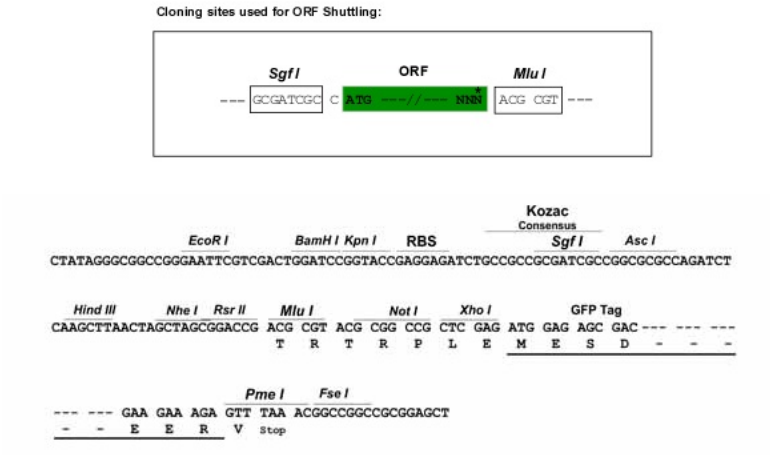
>RG219532 representing NM_022664
Red=Cloning site Green=Tags(s)

MGTTARAALVLTYLAVASAASEGGFTATGQRQLRPEHFQEVGYAAPPSPPLSRSLPMDHPDSSQHGPPFE
GQSQVQPPPSQEATPLQQEKLLPAQLPAEKEVGPPLPQEAVPLQKELPSLQHPNEQKEGTPAPFGDQSHP
EPESWNAAQHCQQDRSQGGWGHRLDGFPPGRPSPDNLNQICLPNRQHVVYGPWNLPQSSYSHLTRQGETL
NFLEIGYSRCCHCRSHTNRLECAKLVWEDTLDKYCDREYAVKTHHHLCCRHPPSPTRDECFARRAPYPNY
DRDILTIDIGRVTPNLMGHLCGNQRVLTKHKHIPGLIHNMTARCCDLPFPEQACCAEEEKLTFINDLCGP
RRNIWRDPALCCYLSPGDEQVNCFNINYLRNVALVSGDTENAKGQGEQGSTGGTNISSTSEPKEE

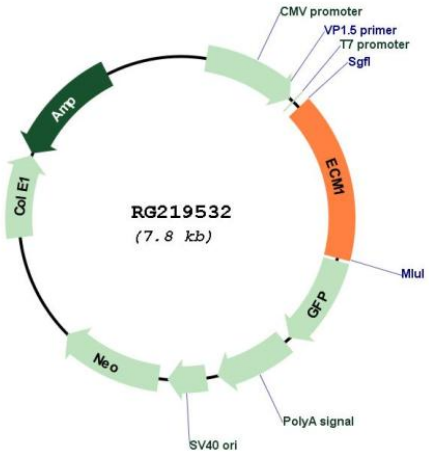
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
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]