

Product datasheet for **RG202240**

COL8A1 (NM_020351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL8A1 (NM_020351) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL8A1
Synonyms:	C3orf7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG202240 representing NM_020351
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCTGTGCTGCCTGGCCCTCTGCAGCTGCTGGGAGTGTGCTTACCATTTCCTGAGTTCATCAGGC
 TCATTCAGGCTGGTGCCTACTATGGGATCAAGCCGCTGCCACCTCAAATTCCTCCTCAGATGCCACCACA
 AATTCCACAATACCAGCCCTGGGTCAAGTACCTCACATGCCTTTGCCCAAAGATGGCCTTGCCATG
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 AACCGGCGCCAAGAATGGGCAAGGAAGCGTACCCAAGAAAGGCAAGAAATACCATTAGCCAGTTTACG
 AGGGGAACAAGGTCCCCGTGGAGAGCCTGGCCCAAGAGGACCACCTGGGCCCCCTGGTTTGCCAGGTCAT
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 TCTATTCAAGAACAACGAGCCCGTGATGTACACGTACGACGAGTACAAAAAGGGCTTCTGGACCAGGCA
 TCTGGGAGTGCAGTGTGCTGCTCAGGCCCGGAGACCGGGTGTTCCTCCAGATGCCCTCAGAACAGGCTG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

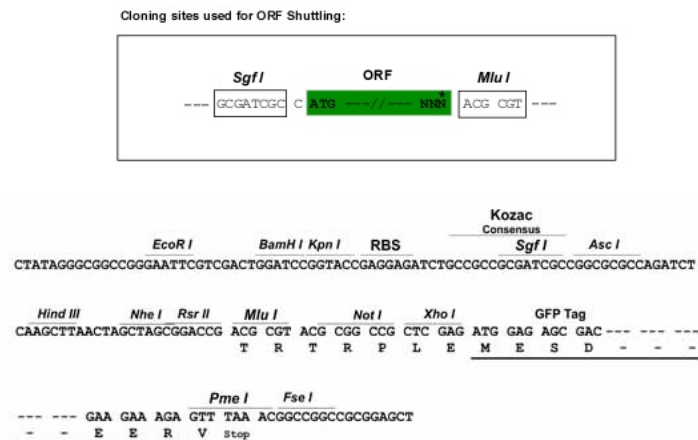
Protein Sequence: >RG202240 representing NM_020351
 Red=Cloning site Green=Tags(s)

MAVLPGPLQLLGVLITISLSSIRLIQAGAYYGIKPLPPQIPPQMPPQIPQYQPLGQQVPHMLAKDGLAM
 GKEMPHLQYGYEYHPLQYMKIQAAPRMGKEAVPKKGKEIPLASLRGEQGPRGEPGPRGPPGPPGLPGH
 GIPGIKGPQGPQYGPVGKPGMPGMPGKPGAMGMPGAKGEIGQKEIGPMGIPGPQGPVPHLPGIGKP
 GGPGPLGQPGPKGDRGPKGLPGPQGLRGPKGDKGFGMPGAPGVKGPPGMHGPVGLPGVGKPGVTGFP
 GPQGPLKPGAPGEPGPQGPVGPVQGPPIGPIGKPGQDGIQGPQGFPGGKGEQGLPGLPGPPGLPGI
 GKPFPKPGKDRGMGGVPGALGPRGKGPAGPIGGPPGEPGLPGIPGMPGPPAIGFPGPKGEGGIVG
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 QGLQGPPIGPIGGPSGPIGPPGIPGPKGEPGLPGPPGFGPIGKPGVAGLHGPVPGKPGALGPQGQPLPG
 PPGPPGPPGPPAVMPPTPPPQGEYLPDMGLGIDGVKPPHAYGAKKGKNGGPAYEMPAFTAELTAPFPVVG
 APVKFNKLLYNGRQNYNPQTGIFTCEVPGVYFYAYHVHCKGGNVVVALFKNNEPVMTYDEYKKGFLDQA
 SGSAVLLLRPGDRVFLQMPSEQAAGLYAGQYVHSSFSGYLLYPM

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020351

ORF Size: 2232 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020351.4](#)

RefSeq Size: 2614 bp

RefSeq ORF: 2235 bp

Locus ID: 1295

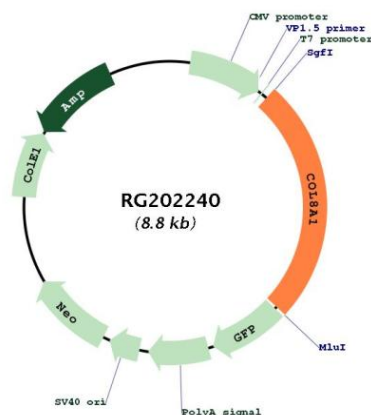
UniProt ID: [P27658](#)

Cytogenetics: 3q12.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes one of the two alpha chains of type VIII collagen. The gene product is a short chain collagen and a major component of the basement membrane of the corneal endothelium. The type VIII collagen fibril can be either a homo- or a heterotrimer. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG202240