

Product datasheet for **RG223998**

Loricrin (LOR) (NM_000427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Loricrin
Synonyms:	LOR
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223998 representing NM_000427
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTATCAGAAAAAGCAGCCACCCCTCAGCCCCAGTGGACTGCGTGAAGACCTCTGGCGGCGGTG
GCGGTGGCGGCGGCAGCGGCGGTGGTGGCTGCGGCTTCTTCGGCGGCGGCGGCTCAGGGGCGGTAGCAG
CGGTTCTGGCTGCGGCTACTCCGGCGGCGGTGGCTACTCTGGCGGCGGCTGCGGCGGGGCTCTCCGGC
GGCGGGGCGGGGCGGCATTGGAGGCTGCGGAGGGGCTCCGGTGGGAGCGTCAAGTACTCCGAGGCG
GCGGCTCTCCGGCGGGGCTCTGGCTGTTTCTCCAGCGGTGGGGCGGCTCCGGCTGCTTCTCTCCGG
TGGCGGCGGCTCTCCGGGGCGGCTCCGGCTGCTTCTCCAGCGGTGGGGCGGCTCTCCGGGGCGGC
TCCGGCTGCTTCTCTCCGGCGGCGGCGGCTTCTCGGGCCAGGCGGTCCAGTGCAGAGCTACGGAGGCG
TCTTAGCGGCGGCTCTCCGGGGCGGCTCCGGCTGCTTCTCCAGCGGCGGGGCGGCGGCTCTGTCTG
CGGCTACTCTGGCGGCGGCTCTGGCTGCGGCGGAGGCTCCTCTGGCGGCAAGCGGCTCCGGCTACGTCTCC
TCGCAGCAGTCACTCAGACCTCGTGCGCGCCAGCCGAGTTACGGAGGGGGTCTCGTCCGGCGGCGGCG
GCAGCGGCGGAAGCGGCTGCTTCTCCAGCGGCGGGGCGGCGGGAGCTCCGGCTGCGGCGGCGGCTCTCT
CGGGATTGGCAGCGGCTGCATCATCAGTGGCGGGGCTCCGTCTGCGGAGGTGGTTCCTCTGGAGCGGC
GGCGGCGGCTCCTCCGTGGGTGGCTCCGGGAGTGCAAGGGCGTCCCGATCTGCCACCAGACCCAGCAGA
AGCAGGCGCCTACCTGGCCGTCCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG223998 representing NM_000427

Red=Cloning site Green=Tags(s)

MSYQKKQPTPQPPVDCVKTSGGGGGGGSGGGGCGFFGGGSGGGSSGSGCGYSGGGGYSGGGCGGGSSG
GGGGGGIGGCGGGSGSVKYSGGGSSGGGSGCFSSGGGSGCFSSGGGSSGGGSGCFSSGGGSSGGG
SGCFSSGGGGFSGQAVQCQSYGGVSSGGSSGGGSGCFSSGGGSGVCGYSGGGSGCGGGSSGGSGYVS
SQQVTQTSCAPQPSYGGSSGGGSGGSGCFSSGGGSSGGCGGSSGIGSGCIISGGGSGVCGGGSSGG
GGGSSYGGSGKGVPICHQTQQKQAPTWPSK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN:

NM_000427

ORF Size:

936 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_000427.3](#)

RefSeq Size: 1229 bp

RefSeq ORF: 939 bp

Locus ID: 4014

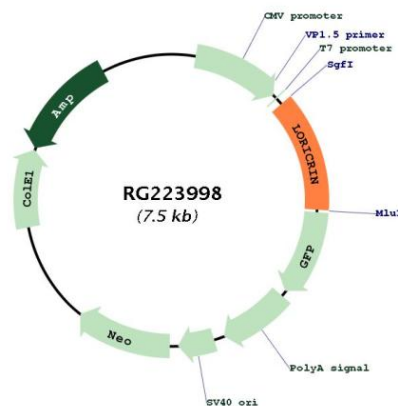
UniProt ID: [P23490](#)

Cytogenetics: 1q21.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes loricrin, a major protein component of the cornified cell envelope found in terminally differentiated epidermal cells. Mutations in this gene are associated with Vohwinkel's syndrome and progressive symmetric erythrokeratoderma, both inherited skin diseases. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG223998