

Product datasheet for **RG206044**

LRAT (NM_004744) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRAT (NM_004744) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRAT
Synonyms:	LCA14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206044 representing NM_004744 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAACCCCATGCTGGAGGTGGTGTCTTTACTACTGGAGAAGCTGCTCCTCATCTCCAACCTCACGC
TCTTTAGTTCGGGCGCCGCGGGCGAAGACAAAGGGAGGAACAGTTTTTATGAAACCAGCTCTTCCACCG
AGGCGACGTGCTGGAGGTGCCCGGACCCACCTGACCCACTATGGCATCTACCTAGGAGACAACCGTGT
GCCACATGATGCCGACATCCTGTTGGCCCTGACAGACGACATGGGGCGCACGAGAAGGTGGTCTCCA
ACAAGCGTCTCATCCTGGGCGTTATTGTCAAAGTGCCAGCATCCGCGTGGACACAGTGGAGGACTTCGC
CTACGGAGCTAACATCCTGGTCAATCACCTGGACGAGTCCCTCCAGAAAAGGCACTGCTCAACGAGGAG
GTGGCGCGGAGGGCTGAAAAGCTGCTGGGCTTTACCCCTACAGCCTGCTGTGGAACAACCTGCGAGCACT
TCGTGACCTACTGCAGATATGGACCCCGATCAGTCCCCAGTCCGACAAGTTTTGTGAGACTGTGAAGAT
AATTATTCGTGATCAGAGAAGTGTCTTCTGCTTCAGCAGTCTTGGGATTGGCGTCTATAGTCTGTACGGGC
TTGGTATCATACACTACCCTTCTGCAATTTTTATTCCATTCTTCTATGGATGGCTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_004744.5](#)

RefSeq Size: 4909 bp

RefSeq ORF: 693 bp

Locus ID: 9227

UniProt ID: [O95237](#)

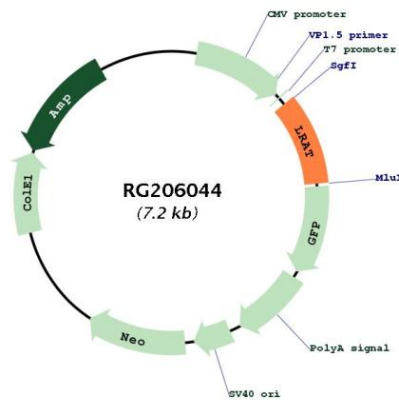
Cytogenetics: 4q32.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Retinol metabolism

Gene Summary: The protein encoded by this gene localizes to the endoplasmic reticulum, where it catalyzes the esterification of all-trans-retinol into all-trans-retinyl ester. This reaction is an important step in vitamin A metabolism in the visual system. Mutations in this gene have been associated with early-onset severe retinal dystrophy and Leber congenital amaurosis 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

Product images:



Circular map for RG206044