

Product datasheet for **RG226860**

LGSN (NM_001143940) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGSN (NM_001143940) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LGSN
Synonyms:	GLULD1; LGS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226860 representing NM_001143940 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATAATGAAGAGGACCTTCTGCAGGAGGACTCAACAAGAGATGAAGGCAATGAGACTGAAGCCAACA
 GCATGAACACATTAAGAAGGACAAGGAAGAAAGTCACTAAACCATATGTTTGTTCACTGAAGTGGGAGA
 AACGGATATGTCAATTCAAATGATTGCATGAGGGACAGCAGTCAAATTTGACCCACCTCACTCTCT
 TCTAGAATGAAACACATTAGACAAGCCATGGCCAAAAATCGCCTCCAGTTTGTACGATTTGAAGCAACAG
 ACCTCCACGGCGTGTCCAGGTCTAAGACTATCCCTGCACACTTTTTTCAAGAGAAAGTGAGCCATGGTGT
 TTGCATGCCCGAGGTTATCTTGAAGTGATACCAAATCCAAAGGACAATGAAATGAATAACATAAGAGCC
 ACATGTTTTAATAGCGACATAGTCTAATGCCAGAGTTATCAACCTTTAGAGTTTGGCATGGGCTGACA
 GAACTGCAAGAGTGATATGTGATACCTTCACTGTGACTGTCTCTGGGATGTCGATAGGAAGAAAAACATG
 TTCTGCAGCACTTCTGGAAGTGAAGCAGCTCAGCATCACTGGGAAAAAATGGTTGGCAGGACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

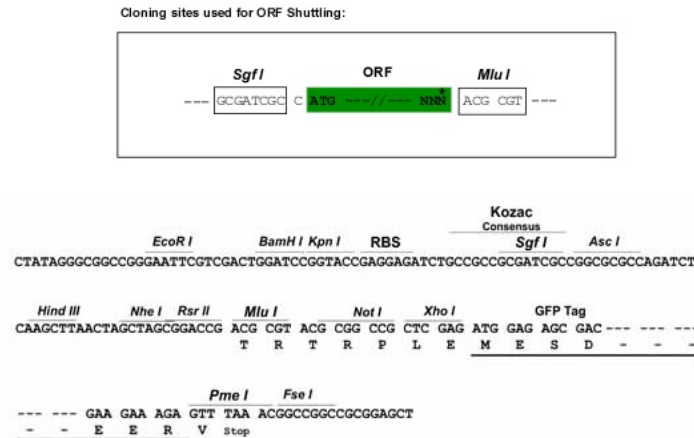
Protein Sequence:	>RG226860 representing NM_001143940 Red=Cloning site Green=Tags(s)
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MNNEEDLLQEDSTRDEGNETEANSMTNLRTRRKVTKPYVCSTEVGETDMSNSNDCMRDSSQILTPPQLS
 SRMKHIRQAMAKNRLQFVRFEATDLHGVSRSKTI PAHFFQEKVSHGVCMRPGYLEVIPNPKDNEMNNIRA
 TCFNSDIVLMPELSTFRVLPWADRTARVICDTFTVTVSGMSIGRKTCSAALLELSSSRSLGKNGWQDS

TRTRPLE - GFP Tag - V

Restriction Sites:	Sgfl-MluI
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Cloning Scheme:


ACCN: NM_001143940

ORF Size: 624 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_001143940.1](#), [NP_001137412.1](#)

RefSeq Size: 5213 bp

RefSeq ORF: 627 bp

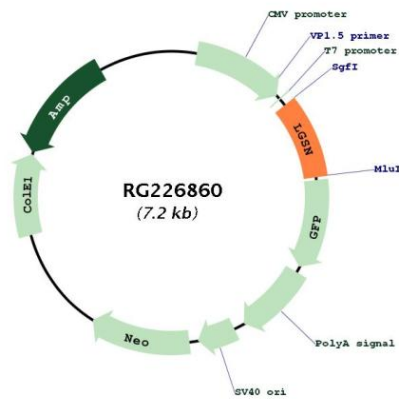
Locus ID: 51557

UniProt ID: [Q5TDP6](#)

Cytogenetics: 6q12

Gene Summary:

This gene encodes a protein with similarity to the GS I members of the glutamine synthetase superfamily. The encoded protein is referred to as a pseudo-glutamine synthetase because it has no glutamine synthesis activity and may function as a chaperone protein. This protein is localized to the lens and may be associated with cataract disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2009]

Product images:


Circular map for RG226860