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 RG201243

CLN3 (NM_000086) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLN3 (NM_000086) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLN3
Synonyms:	BTN1; BTS; JNCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201243 representing NM_000086
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGGCTGTGCAGGCTCGCGGCGGCGCTTTTCGGATTCCGAGGGGGAGGAGACCGTCCCGGAGCCCC
GGCTCCCTCTGTTGGACCATCAGGGCGCGCATTGGAAGAACGCGGTGGGCTTCTGGCTGCTGGGCCTTTG
CAACAACTTCTCTTATGTGGTGATGCTGAGTGCCGCCCACGACATCCTTAGCCACAAGAGGACATCGGGA
AACCAGAGCCATGTGGACCCAGGCCCAACGCCGATCCCCCACAACAGCTCATCACGATTTGACTGCAACT
CTGTCTCTACGGCTGCTGTGCTCCTGGCGGACATCCTCCCCACACTCGTCATCAAATTGTTGGCTCCTCT
TGGCCTTCACCTGCTGCCCTACAGCCCCCGGGTTCTCGTCAGTGGGATTTGTGCTGCTGGAAGCTTCGTC
CTGGTTGCCTTTTCTCATTCTGTGGGGACCAGCCTGTGTGGTGTGGTCTTCGCTAGCATCTCATCAGGCC
TTGGGGAGGTCACCTTCCTCTCCCTCACTGCCTTCTACCCCAGGGCCGTGATCTCCTGGTGGTCCTCAGG
GACTGGGGGAGCTGGGCTGCTGGGGGCCCTGTCCTACCTGGGCCTCACCCAGGCCGGCCTCTCCCCTCAG
CAGACCCTGCTGTCCATGCTGGGTATCCCTGCCCTGCTGCTGGCCAGCTATTTCTTGTTGCTCACATCTC
CTGAGGCCCAGGACCCTGGAGGGGAAGAAGAAGCAGAGAGCGCAGCCCGGCAGCCCCTCATAAGAACCGA
GGCCCCGGAGTCGAAGCCAGGCTCCAGCTCCAGCCTCTCCCTTCGGGAAAGGTGGACAGTGTTCAAGGGT
CTGCTGTGGTACATTGTTCCCTTGGTCGTAGTTTACTTTGCCGAGTATTTCATTAACCAGGGACTTTTTG
AACTCCTCTTTTTCTGGAACACTTCCCTGAGTCACGCTCAGCAATACCGCTGGTACCAGATGCTGTACCA
GGCTGGCGTCTTTGCCTCCCGCTCTTCTCTCCGCTGCTGTCGCATCCGTTTCACCTGGGCCCTGGCCCTG
CTGCAGTGCCTCAACCTGGTGTTCCTGCTGGCAGACGTGTGGTTCGGCTTTCTGCCAAGCATCTACCTCG
TCTTCCTGATCATTCTGTATGAGGGGCTCCTGGGAGGCGCAGCCTACGTGAACACCTTCCACAACATCGC
CCTGGAGACCAGTGATGAGCACCGGGAGTTTGCAATGGCGGCCACCTGCATCTCTGACACACTGGGGATC
TCCCTGTCGGGGCTCCTGGCTTTGCCTCTGCATGACTTCCTCTGCCAGCTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

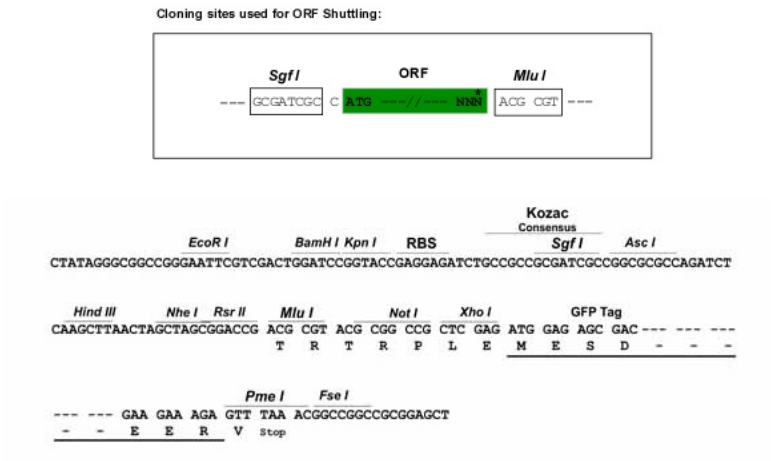
>RG201243 representing NM_000086
Red=Cloning site Green=Tags(s)

MGGCAGSRRRFSDSEGEETVPEPRLPLLDHQGAHWKNAVGFWLLGLCNNFSYVVMLSAAHDILSHKRTSG
NQSHVDPGPTPIPHNSSSRFDCNSVSTAAVLLADILPTLVIKLLAPLGLHLLPYSPRVLVSGICAAGSFV
LVAFSHSVGTSLCGVVFASISSGLGEVTFLSLTAFYPRAVISWWSSGTGGAGLLGALSYLGLTQAGLSPQ
QTLLSMLGIPALLLASYFLLLTSPEAQDPGGEEEAESAARQPLIRTEAPESKPGSSSSLSLRERWTVFKG
LLWYIVPLVVVYFAEYFINQGLFELLFFWNTSLSHAQQYRWYQMLYQAGVFASRSSLRCCRIRFTWALAL
LQCLNLVFLLADVWFGFLPSIYLVFLIILYEGLLGGAAYVNTFHNIALETSDEHREFAMAATCISDTLGI
SLSGLLALPLHDFLCQLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000086

ORF Size: 1314 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_000086.2, NP_000077.1

RefSeq Size: 1879 bp

RefSeq ORF: 1317 bp

Locus ID: 1201

UniProt ID: Q13286

Cytogenetics: 16p12.1

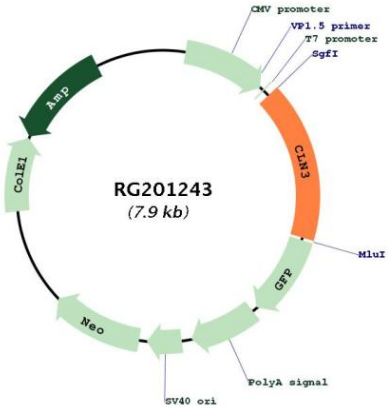
Domains: CLN3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome

Gene Summary: This gene encodes a protein that is involved in lysosomal function. Mutations in this, as well as other neuronal ceroid-lipofuscinosis (CLN) genes, cause neurodegenerative diseases commonly known as Batten disease or collectively known as neuronal ceroid lipofuscinoses (NCLs). Many alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201243