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 RG237882

CLN3 (NM_001286110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLN3 (NM_001286110) 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:

>RG237882 representing NM_001286110.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGAGTGCCGCCCACGACATCCTTAGCCACAAGAGGACATCGGGAAACCAGAGCCATGTGGACCCA
GGCCCAACGCCGATCCCCCACAACAGCTCATCACGATTTGACTGCAACTCTGTCTCTACGGCTGCTGTG
CTCCTGGCGGACATCCTCCCCACACTCGTCATCAAATTGTTGGCTCCTCTTGGCCTTCACCTGCTGCCC
TACAGCCCCCGGGTTCTCGTCAGTGGGATTTGTGCTGCTGGAAGCTTCGTCCTGGTTGCCTTTTCTCAT
TCTGTGGGGACCAGCCTGTGTGGTGTGGTCTTCGCTAGCATCTCATCAGGCCTTGGGGAGGTCACCTTC
CTCTCCCTCACTGCCTTCTACCCCAGGGCCGTGATCTCCTGGTGGTCCTCAGGGACTGGGGGAGCTGGG
CTGCTGGGGGCCCTGTCCTACCTGGGCCTCACCCAGGCCGGCCTCTCCCCTCAGCAGACCCTGCTGTCC
ATGCTGGGTATCCCTGCCCTGCTGCTGGCCAGCTATTTCTTGTTGCTCACATCTCCTGAGGCCCAGGAC
CCTGGAGGGGAAGAAGAAGCAGAGAGCGCAGCCCGGCAGCCCCTCATAAGAACCGAGGCCCCGGAGTCG
AAGCCAGGCTCCAGCTCCAGCCTCTCCCTTCGGGAAAGGTGGACAGTGTTCAAGGGTCTGCTGTGGTAC
ATTGTTCCCTTGGTCGTAGTTTACTTTGCCGAGTATTTCATTAACCAGGGACTTTTTGAACTCCTCTTT
TTCTGGAACACTTCCCTGAGTCACGCTCAGCAATACCGCTGGTACCAGATGCTGTACCAGGCTGGCGTC
TTTGCCTCCCGCTCTTCTCTCCGCTGCTGTCGCATCCGTTTCACCTGGGCCCTGGCCCTGCTGCAGTGC
CTCAACCTGGTGTTCCTGCTGGCAGACGTGTGGTTCGGCTTTCTGCCAAGCATCTACCTCGTCTTCCTG
ATCATTCTGTATGAGGGGCTCCTGGGAGGCGCAGCCTACGTGAACACCTTCCACAACATCGCCCTGGAG
ACCAGTGATGAGCACCGGGAGTTTGCAATGGCGGCCACCTGCATCTCTGACACACTGGGGATCTCCCTG
TCGGGGCTCCTGGCTTTGCCTCTGCATGACTTCCTCTGCCAGCTCTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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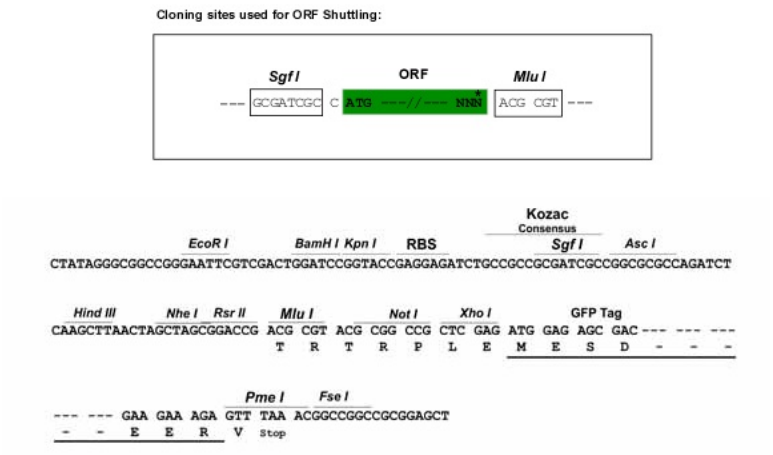
Protein Sequence:

>Peptide sequence encoded by RG237882
Blue=ORF Red=Cloning site Green=Tag(s)

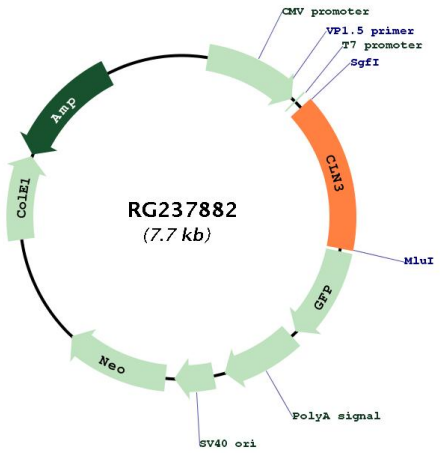
MLSAAHDILSHKRTSGNQSHVDPGPTPIPHNSSSRFDCNSVSTAAVLLADILPTLVIKLLAPLGLHLLP
YSPRVLVSGICAAGSFVLVAFSHSVGTSLCGVVFASISSGLGEVTFLSLTAFYPRAVISWWSSGTGGAG
LLGALSYLGLTQAGLSPQQTLLSMLGIPALLLASYFLLLTSPEAQDPGGEEEAESAARQPLIRTEAPES
KPGSSSSLSLRERWTVFKGLLWYIVPLVVVYFAEYFINQGLFELLFFWNTSLSHAQQYRWYQMLYQAGV
FASRSSLRCCRIRFTWALALLQCLNLVFLLADVWFGFLPSIYLVFLIILYEGLLGGAAYVNTFHNIALE
TSDEHREFAMAATCISDTLGISLSGLLALPLHDFLCQLS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001286110
ORF Size:	1152 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).
RefSeq:	NM_001286110.2
RefSeq Size:	1797 bp
RefSeq ORF:	1155 bp
Locus ID:	1201
Cytogenetics:	16p12.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Lysosome
MW:	42.1 kDa
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]