

## Product datasheet for **RG238090**

### CLN3 (NM\_001286104) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLN3 (NM_001286104) 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:	>RG238090 representing NM_001286104. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAGGCTGTGCAGGCTCGCGCGGCCTTTTCGGATTCCGAGGGGGAGGAGACCGTCCCGGAGCCC
CGGCTCCCTCTGTTGGACCATCAGGGCGCGCATTGGAAGAACGCGGTGGGCTTCTGGCTGCTGGCCCTT
TGCAACAACCTTCTTATGTGGTGATGCTGAGTGCCGCCACGACATCCTTAGCCACAAGAGGACATCG
GGAAACCAGAGCCATGCTGTGCTCCTGGCGGACATCCTCCACACTCGTCATCAAATTGTTGGCTCCT
CTTGGCCTTACCTGCTGCCCTACAGCCCCGGGTTCTCGTCAGTGGGATTTGTGCTGCTGGAAGCTTC
GTCCTGGTTGCCTTTTCTATTCTGTGGGACCAGCCTGTGTGGTGTGGTCTTCGCTAGCATCTCATCA
GGCCTTGGGGAGGTCACCTTCTCTCCCTCACTGCCTTCTACCCAGGGCCGTGATCTCCTGGTGGTCC
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CCTCAGCAGACCCTGCTGTCCATGCTGGGTATCCCTGCCCTGCTGCTGGCCAGCTATTTCTTGTGCTC
ACATCTCTGAGGCCAGGACCCTGGAGGGGAAGAAGAAGCAGAGAGCGCAGCCCGGAGCCCTCATA
AGAACCGAGGCCCGGAGTCGAAGCCAGGCTCCAGCTCCAGCCTCTCCCTTCGGGAAAGTGGACAGTG
TTCAAGGGTCTGCTGTGGTACATTGTTCCCTGGTCGTAGTTTACTTTGCCGAGTATTTCAATACCAG
GGACTTTTTGAACTCCTTTTTCTGGAACACTCCCTGAGTACGCTCAGCAATACCGTGGTACCAG
ATGCTGTACCAGGCTGGCGTCTTTGCCCTCCGCTCTTCTCCGCTGCTGTCGCATCCGTTTACCTGG
GCCCTGGCCCTGCTGCAGTGCCTCAACCTGGTGTCTCTGCTGGCAGACGTGGTTCGGCTTTCTGCCA
AGCATCTACCTCGTCTTCTGATCATTCTGTATGAGGGGCTCCTGGGAGGCGCAGCCTACGTGAACACC
TTCCACAACATCGCCCTGGAGACCAGTGATGAGCACCAGGAGTTTGAATGGCGGCCACCTGCATCTCT
GACACACTGGGGATCTCCCTGTCGGGGCTCCTGGCTTTGCCTCTGCATGACTTCTCTGCCAGCTCTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG238090  
 Blue=ORF Red=Cloning site Green=Tag(s)

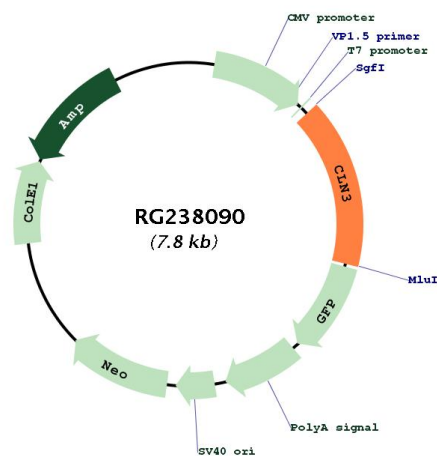
MGGCAGSRRRFSDSEGEETVPEPRLPLLDHQGAHWKNAVGFLLGLCNNFSYVVMLSAAHDILSHKRTS  
 GNQSHAVLLADILPTLVIKLLAPLGLHLLPYSRVLVSGICAAGSFVLVAFSHSVGTSLCGVVFASISS  
 GLGEVFTLSLTAFYPRAVISWSSGTGGAGLLGALSYLGLTQAGLSPQQTLLSMLGIPALLLASYFLLL  
 TSPEAQDPGEEEAESAARQPLIRTEAPESKPGSSSSLSLRERWTVFKGLLWYIVPLVVVYFAEYFINQ  
 GLFELLFFWNTLSLHAQQYRWYQMLYQAGVFASSSSLRCCRIRFTWALALLQCLNLVFLLDVWFGFLP  
 SIYLVFLIILYEGLLGGAAVNTFHNI ALETSDHEHREFAMAATCISDTLGLSLSGLLALPLHDFLCQLS  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPGYNPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_001286104
<b>ORF Size:</b>	1242 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001286104.2</a>
<b>RefSeq Size:</b>	1840 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	1201
<b>UniProt ID:</b>	<a href="#">Q13286</a>
<b>Cytogenetics:</b>	16p12.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Lysosome
<b>MW:</b>	45.6 kDa
<b>Gene Summary:</b>	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]