

Product datasheet for **RG214709**

CLN5 (NM_006493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLN5 (NM_006493) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214709 representing NM_006493 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCGGAACCTGCGCTTGGGGCCAAGCTCTGGAGCTGACGCGCAGGGGCAAGGCGCCCCGCGTCCCG
GACTGGCGGCTCCGCGCATGCTCCTCCCACCGCGTCGAGAGGCTCCGGAAGTACTGGGTG
CAGCCTGATGGCGCAGGAGGTAGACACGGCACAGGGCGCCGAGATGCGGCGGGGCGGGCGCGGCTCGG
GGACGCGCTTCTGGTGTGGCCCTGGCGCTGCTTTGGCTCGCGGTGGTCCGGGCTGGTCCCGGGTCT
CGGGCATCCCCTCCGGCGCCACTGGCCGGTGCCCTACAAGCGCTTTGACTTCCGTCCAAACCTGATCC
TTATTGTCAAGCTAAGTATACTTTCTGTCCAACCTGGCTCACCTATCCAGTTATGGAGGGTGATGATGAC
ATTGAAGTTTTTCGATTACAAGCCCCAGTATGGGAATTTAAATATGGAGACCTCCTGGGACACTGAAAA
TTATGCATGATGCCATTGGATTGAGAGTACATTAAGTGGCAAGAACTACACAATGGAATGGTATGAACT
TTTCCAACCTGGCAACTGTACATTTCCCATCTCCGACCTGAAATGGATGCCCTTTCTGGTGAATCAA
GGCGCTGCCTGCTTTTTGAGGGAATTGATGATGTTCACTGGAAGGAAAATGGGACATTAGTTCAAGTAG
CAACTATATCAGGAAACATGTTCAACCAATGGCAAGTGGGTGAAACAGGACAATGAAACAGGAATTTA
TTATGAGACATGGAATGTAAAAGCCAGCCAGAAAAGGGGCGAGAGACATGGTTTGATTCTACGACTGT
TCCAAATTTGTGTTAAGGACCTTTAACAAGTTGGCTGAATTTGGAGCAGATTCAAGAACATAGAAACCA
ACTATACAAGAATATTTCTTTACAGTGGAGAACCTACTTATCTGGGAAATGAAACATCTGTTTTGGGCC
AACAGGAAACAAGACTCTTGTTTTAGCCATAAAAAGATTTTATTACCCCTTCAAACACATTTGCCAACT
AAAGAATTTCTGTTGAGTCTCTTGCAAATTTTGTATGCAGTGATTGTGCACAAACAGTTCTATTTGTTTT
ATAATTTGAATATTGTTTTTACCTATGAAATTCCTTTTATTTAAATAACATATGAAGAAATCCCTTT
ACCTATCAGAAACAAACACTCTCTGTTTA

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

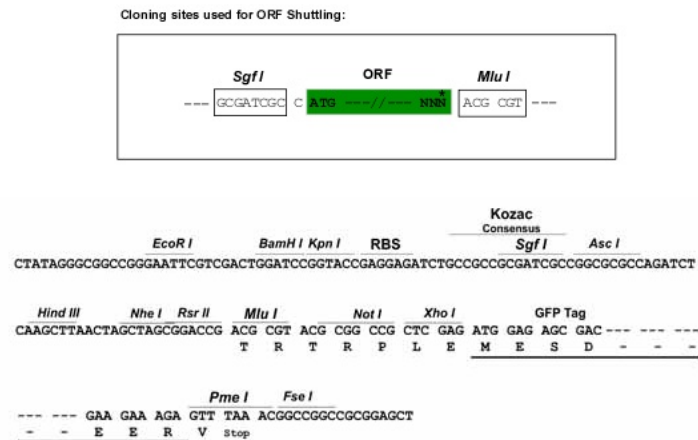
Protein Sequence: >RG214709 representing NM_006493
Red=Cloning site Green=Tags(s)

MRRNLR L GPSSGADAQGGAPRPLAAPRMLLPASQASRGSGSTGCSLMAQEVDTAQGAEMRRGAGAAR
GRASWCWALALLWLAVVPGWSRVSGIPSRRHWPVPYKRFDFRKPDPYCQAKYTFCTGSPIPVMEGDDD
IEVFRLQAPVWEFKYGDLLGHLKIMHDAIGFRSTLTGKNYTMWYELFQLGNCTFPHLRPEMDAPFWCNQ
GAACFFEGIDDVHWKENGTLVQVATISGNMFNQMAKWKQDNETGIYYETWNVKASPEKGAETWFDSDYDC
SKFVLRTFNKLAEFGAEFKNIETNYTRIFLYSGEPTYLGNETS VFGPTGNKTLGLAIKRFYYPFKPHLPT
KEFLLSLLQIFDAIVHKQFYLFYNFEYWFLPMKFPFIKITYEEIPLPIRNKTL SGL

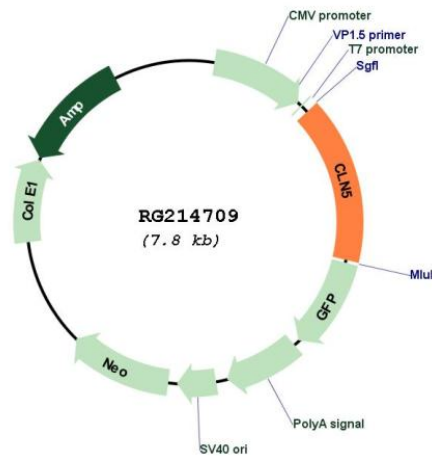
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006493

ORF Size:	1221 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:	<ol style="list-style-type: none"> 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_006493.2
RefSeq Size:	4080 bp
RefSeq ORF:	1077 bp
Locus ID:	1203
UniProt ID:	O75503
Cytogenetics:	13q22.3
Protein Pathways:	Lysosome
Gene Summary:	This gene is one of eight which have been associated with neuronal ceroid lipofuscinoses (NCL). Also referred to as Batten disease, NCL comprises a class of autosomal recessive, neurodegenerative disorders affecting children. The genes responsible likely encode proteins involved in the degradation of post-translationally modified proteins in lysosomes. The primary defect in NCL disorders is thought to be associated with lysosomal storage function. [provided by RefSeq, Oct 2008]