

Product datasheet for **MG215618**

Cln5 (NM_001033242) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cln5 (NM_001033242) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cln5
Synonyms: A730075N08Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215618 representing NM_001033242
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCGCGGGGGCCATGTGGAGCGCACTGGCGCCCGCGCTCGCGCTGGCGTGCTCGGGCTGGCGA
 CGATTCTGGGCGCGTCCCGACGTCTGGCAACGCTGGCCGGTCCCTACAAGCGTTCTCTTTCCGTCC
 GAAGACAGATCCCTACTGTCAAGCTAAGTATACTTTCTGTCTACCGGCTCGCCATCCCAGTTATGAAG
 GACAATGACGTCACTCGAGGTCTTACGACTACAAGCCCGATTTGGGAATTTAAATATGGAGACCTCTGG
 GACTTTAAACTTATGCATGACGCGTGGGATTCAGGAGCACACTGACAGGCAAGAACTACACAATTGA
 GTGGTATGAACTTTTCCAGCTGGCAACTGTACATTTCCACCTCCGGCCTGACAAGAGCGCTCCCTTC
 TGGTGAACCAAGGGGCAGCCTGCTTTTTGAAGGAATAGATGATAAACTGGAAGGAAAACGGGACAC
 TGTCAGTCGTTGCAACCATATCCGAAACACATTTAAACAAAGTGGCCGAGTGGGTGAAGCAGGACAATGA
 AACTGGGATTTATTATGAGACATGGACGGTCCGAGCCGGCCAGGACAAGGGGCCAGACGTGGTTTCGAG
 TCCTACGACTGTTCAATTTGTCTTAAGGACATATAAGAAATTTGGTGAATTTGGAACAGAATTCAGA
 AGATAGAAACAACTATACGAAAATATTTCTTTACAGTGGAGAGCCTATTTACCTGGGAAATGAAACATC
 TATTTTTGGGCCCAAAGGAAACAAGACTCTTGTCTTTGGCCATAAAAAATTTTATGGCCCTTCAGACCG
 TATTTGTCAACCAAAGATTTCTGATGAATTTCTGAAAATTTTGATACAGTGATTATACACAGACAGT
 TCTACTGTTTTATAACTTTGAGTATTGGTTTCTACCAATGAAACCCCTTTGTCAAAAACATACGA
 AGAAACCCGTTACCTACCCGACATACAACGTTTACCGACTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215618 representing NM_001033242
 Red=Cloning site Green=Tags(s)

MLRGGPCGAHWRPALALALLGLATILGASPTSGQRWVPVYKRFSFRPKTDPYCQAKYTFCTPSPVPMK
 DNDVIEVLRQLQAPIWEFKYGDLLGHFKLMHDAVGFRSTLTGKNYTIWYELFQLGNCTFPHLRPKSAPF
 WCNQGAACFFEGIDDKHWKENGTLSSVATISGNTFNKVAEWWKQDNETGIYYETWTVRAGPGQAQTWFE
 SYDCSNFVLRTYKKLAIEFGTEFKKIETNYTKIFLYSGEPIYLGNETSIFGPKGNKTLALAIKKFYGPFRP
 YLSTKDFLMNFKIFDVTIIHRQFYLFYNFEYWF LPMKPPFVKITYEETPLPRTHTTFTDL

TRTRPLE - GFP Tag - V

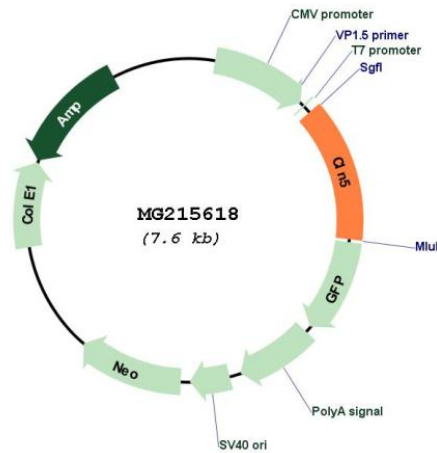
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001033242

ORF Size: 1023 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001033242.1 , NP_001028414.1
RefSeq Size:	2447 bp
RefSeq ORF:	1026 bp
Locus ID:	211286
UniProt ID:	Q3UMW8
Cytogenetics:	14 51.71 cM
Gene Summary:	<p>Plays a role in influencing the retrograde trafficking of lysosomal sorting receptors SORT1 and IGF2R from the endosomes to the trans-Golgi network by controlling the recruitment of retromer complex to the endosomal membrane. Regulates the localization and activation of RAB7A which is required to recruit the retromer complex to the endosomal membrane.</p> <p>[UniProtKB/Swiss-Prot Function]</p>