

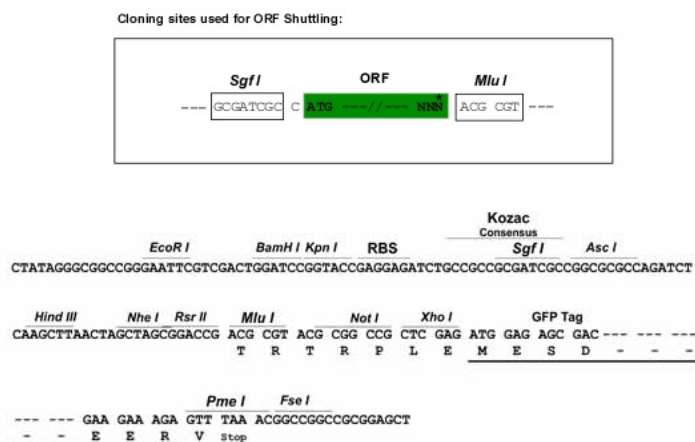
Protein Sequence: >RG214625 representing NM_144599
Red=Cloning site Green=Tags(s)

MGTA AAAAAAAAAAAGAGARSPSPA AAVSLGLGVAVVSSLVNGSTFVLQKKGIVRAKRRGTSYLTIDIVVM
AGTIAMAVGQIGNFLAYTAVPTVLVTPLGALGVPPGFSILASYLLKEKLNILGKLGCLLSCAGSVVLIHS
PKSESVTTQAELEELKTNPVFGVYLCVLLMLLLIFWIAPAHGPTNIMVYISICSLLGSTFVPSTKGIG
LAAQSDILHNPNQMRALCLTCLVLLAVLGCSTIVQFRIYNKALECFDSSVFGAIYVVVFTTLVLLASAILF
REWSNVGLVDFLGAGCGCTTVSVGLVIIOVFKEFNFLGEMNKSNMKTD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144599

ORF Size: 987 bp

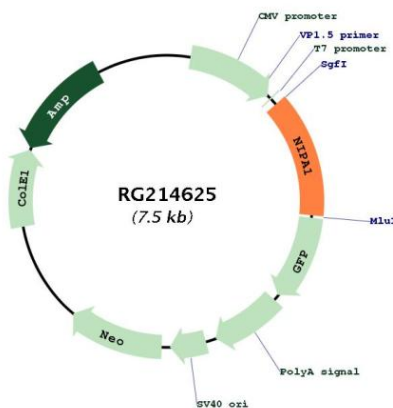
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_144599.3 , NP_653200.2
RefSeq Size:	6565 bp
RefSeq ORF:	990 bp
Locus ID:	123606
UniProt ID:	Q7RTP0
Cytogenetics:	15q11.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a magnesium transporter that associates with early endosomes and the cell surface in a variety of neuronal and epithelial cells. This protein may play a role in nervous system development and maintenance. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene have been associated with autosomal dominant spastic paraplegia 6. [provided by RefSeq, Nov 2008]

Product images:



Circular map for RG214625