

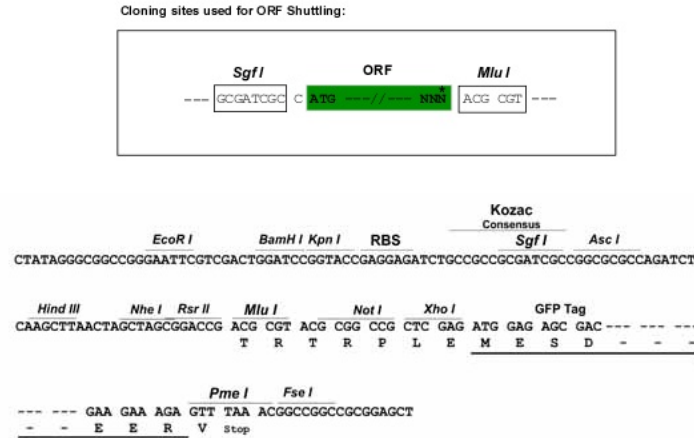
Protein Sequence: >RG209835 representing NM_004559
Red=Cloning site Green=Tags(s)

MSSEAETQPPAAPPAALSAADTKPGTTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRN
 GYGFINRNDTKEDVVFHQTAIKKNPRKYLRSVGDGETVEFDVVEGEKGAEEANVTGPGGVPVQGSKYAA
 DRNHYYRYPRRRGPPRNYQQNYQNSESGEKNEGSESAPEGQAQRRPYRRRRFPYMYMRRPYGRRPQYSN
 PPVQGEVMEGADNQGAGEQGRPVRQNMRYGYRPRFRRGPPRQRPREDGNEEDKENQGDETQGQQPPQRR
 YRRNFNYRRRRPENPKPQDGKETKAADPPAENSSAPEAEQGGAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004559

ORF Size: 972 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.

RefSeq: [NM_004559.5](#)

RefSeq Size: 1561 bp

RefSeq ORF: 975 bp

Locus ID: 4904

UniProt ID: [P67809](#)

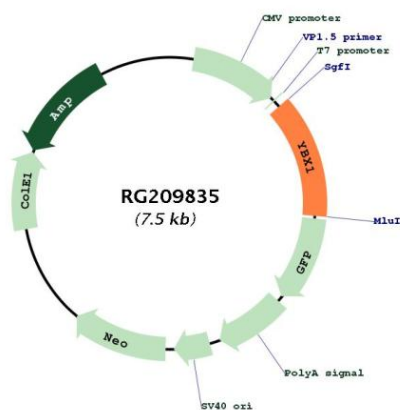
Cytogenetics: 1p34.2

Domains: CSD

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: This gene encodes a highly conserved cold shock domain protein that has broad nucleic acid binding properties. The encoded protein functions as both a DNA and RNA binding protein and has been implicated in numerous cellular processes including regulation of transcription and translation, pre-mRNA splicing, DNA reparation and mRNA packaging. This protein is also a component of messenger ribonucleoprotein (mRNP) complexes and may have a role in microRNA processing. This protein can be secreted through non-classical pathways and functions as an extracellular mitogen. Aberrant expression of the gene is associated with cancer proliferation in numerous tissues. This gene may be a prognostic marker for poor outcome and drug resistance in certain cancers. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on multiple chromosomes. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RG209835