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Product datasheet for MG215931

Tsen15 (NM_025677) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Tsen15
Synonyms:	5730449L18Rik; AL023077; Sen15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG215931 representing NM_025677
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGCGCAGCGATTCCGAACCTACCCCGGGATGTAGCGGGCCTGGCCCGGCTCCCGTTCGCGATG
GCGGCGGCGCCCACACATGGGCTCCGGAGGACGCCTGGATGGGCACACACCCTAAGTACTTAGAAATGAT
GGAATTAGATATAGGAGATGCCACCCAAGTTTATATAGCATTCTTGGTTTACCTGGATCTCATGGAGAGT
AAAAGTTGGCATGAAGTAAACTGTGTAGGAATACCAGAACTACAACTCATCTGCCTCCTTGGCACTGAGA
TCGAAGGGGAAGGGCTGCAGACGGTGGTGCCTACACCCATTTCTGCTTCCCTCAGCCATAATAGGATAAG
GGAAATCTTGAAGGCGTCTAGAAAGTTGCAAGGCGATCCAGAACTGCCGATGTCTTTTACTTTGGCCATA
GTGGAGTCAGATTCCACAATAGTCTATTATAAACTTACCGATGGATTTATGCTGCCAGACCCTCAGAATA
TTTCTCTTAGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215931 representing NM_025677
Red=Cloning site Green=Tags(s)

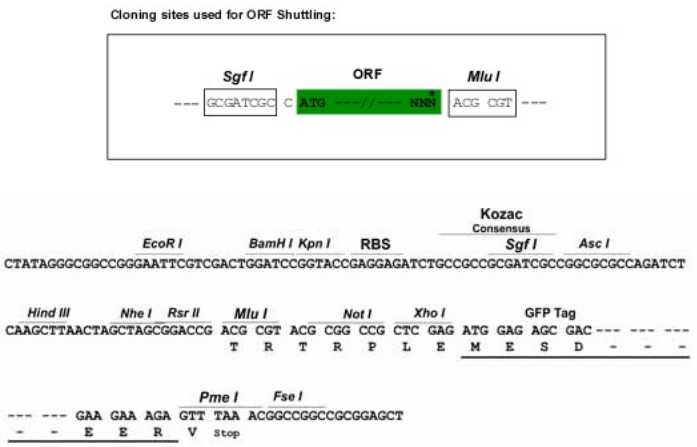
MEERSDSEPTPGCSGPGPAPVRDGGGAHTWAPEDAWMGTHPKYLEMMELDIGDATQVYIAFLVYLDLMES
KSWHEVNCVGIPELQLICLLGTEIEGEGLQTVVPTPISASLSHNRIREILKASRKLQGDPELPMSFTLAI
VESDSTIVYYKLTDGFMLPDPQNISLRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_025677

ORF Size: 504 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_025677.3, NP_079953.2

RefSeq Size: 1147 bp

RefSeq ORF: 507 bp

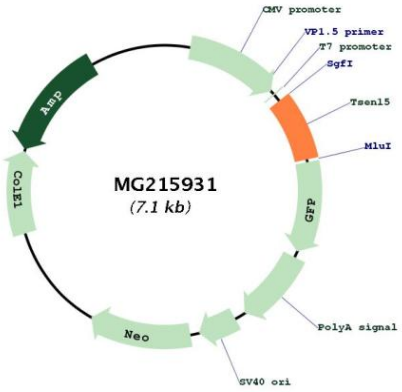
Locus ID: 66637

UniProt ID: Q8R3W5

Cytogenetics: 1 G2

Gene Summary: Non-catalytic subunit of the tRNA-splicing endonuclease complex, a complex responsible for identification and cleavage of the splice sites in pre-tRNA. It cleaves pre-tRNA at the 5' and 3' splice sites to release the intron. The products are an intron and two tRNA half-molecules bearing 2',3' cyclic phosphate and 5'-OH termini. There are no conserved sequences at the splice sites, but the intron is invariably located at the same site in the gene, placing the splice sites an invariant distance from the constant structural features of the tRNA body. The tRNA splicing endonuclease is also involved in mRNA processing via its association with pre-mRNA 3'-end processing factors, establishing a link between pre-tRNA splicing and pre-mRNA 3'-end formation, suggesting that the endonuclease subunits function in multiple RNA-processing events (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215931