

Product datasheet for **MG213366**

Chst13 (NM_027928) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst13 (NM_027928) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst13
Synonyms:	1110067M19Rik; C4ST-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG213366 representing NM_027928, **codon optimized**.
Due to the complexity of NM_027928, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGACGCCGCTCATGCTGTAGGGCGCCCTCCAGTCGTGGCCAGTCTGGGCGTCTTTTTGCTGC
 TGTGTGCACTTAGACCAGCCTTTGAGAATAAGGCACTGGGTAGCTCTGGTTCGGCGCGTGCACAAGTC
 CCCTCTCAACTGCTTCGCGACCTCGATCAGGGGCGGAGAAGCGCCATGGCGGAGTTCCACAGCAACGC
 CGCGAGCTGCTGCGGAGGCGCTGCTCAAGGCACACCAGAAGGCAGAGGCTCCTGCAGCCGAAGATTGA
 GGCACGTGCTCGTCGATGACGCACACCGCTGCTTTATTGCTACGTTCCGAAGGTCGCATGTACCAACTG
 GAAACGAGTAATGCTTGCCTCCGGGGAGGGGCGACCCTTCTGCTATTCTGCTCATGAAGCTCATGCG
 CCAGGCCTTCTGCCATCCCTCGCTGACTTTGCTCCTGCGGAAGTCAACTGGAGACTCAGGGATTACTTGA
 CATTCTGTTCTGTCGCGAGCCCTTTGAGAGGCTGGCATCCGCTTATCGGAACAAGCTGGCCCGACCTCA
 CTCCGACGCTTCCAGCGGCGATATGGAAGTGAATGTGCGACGCTGAGGCCTCACGCCAGCCAGAC
 GCCCTTGTCTGGGGCACGACGTTAGATTGCGGAATTCCTGGCATACTGCTGGACCCTAGGACACGAC
 GGCATGAACCGTTAATGAGCACTGGGAACGCGCCCATGCATTGTGTATCCCTGCTTGGTGAGATACGA
 CGTTGTGGGAAGTTTGAGACCATCGCTGATGATGCGGCATTGCTACTGGATCTGGTGGGGGAACAGGA
 CTGATATCCCGCTCCACCCTCGGCCCTGAGAAAGACCTGACCAGGGAACAGGCCAGAAGACTCTTTC
 AAGATATAAGTCCTTTTACAAAGAAGGCTCTTCAACCTGTATAAGATGGATTTTCTTCTGTTCAATTA
 TTCTGCCCATCATATTTGAGACTGCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG213366 representing NM_027928
 Red=Cloning site Green=Tags(s)

MGRRSCRRPLPVVASLGAALLLALRPAFENKALGSSWFGGVRKSPLQLLRDLQGPRSAMAEVHQQR
 RELLRRACSRHTRRQRLQPEDLRHVLVDDAHRLLYCYVPKVACTNWKRVMLALRGRDPSAIPAHEAHA
 PGLLPSLADFAPAEVNWRLRDYLTFLFVREPFERLASAYRNKLARPHSAAFQRRYTRIVRRLRPHAQPD
 ALARGHDVRFAEFLAYLLDPRTRRHEPFNEHWERAHALCHPCLVRYDVVGKFETIADDAFVLDLVGEPG
 LRFAPPLRPEKDLTREQARRLFQDISPFYQRRFLNLYKMDFLFNYSAPSYLRLQ

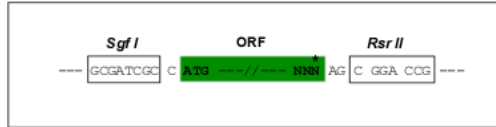
SGP**TRTRRLE** - GFP Tag - V

Restriction Sites:

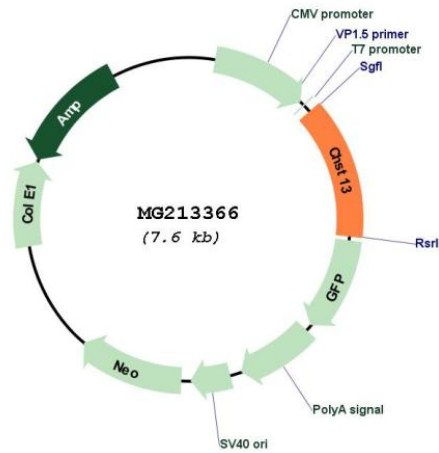
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_027928

ORF Size: 1008 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_027928.1](#), [NP_082204.1](#)

RefSeq Size: 1651 bp

RefSeq ORF: 1011 bp

Locus ID: 71797

Cytogenetics: 6 D1