

## Product datasheet for **RR216759**

### Grsf1 (NM\_001100890) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grsf1 (NM_001100890) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grsf1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR216759 representing NM\_001100890  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
 GCC

ATGGCCGGGACGCGCTGGGTGCTAGGGGCGTTGCTCCGGGGCTGCGGCTGCAACTGCAGCAGCTGCCGGC  
 GAACCGGTGCCGCTGCCTGCCCTTCTACTCGGCCGCGGCACTTCCCGTCCGGCGTCTCTGGCCGCCG  
 CCGCTGCTGCTACTCCTCGGGGCCGCCGCGGCCGCTTCGACAGCGGGGGCTGCAGCTCGGGCCT  
 GCGGCCGCCGGAGACTGGCGGGTCCCCTCCGTCCGTCCGGCCCTCCGCCGCCGCGGCGGCTGCCGCTCCT  
 ACTCGGCGTTGCGCGCCCGCTGCTCCGCGATCGCTGGCCGCCGCCGGGGCCGGCGGGGTTACTG  
 CCAGGAGTCCAAAACCTACCTACCTGGAAGACCTCCACCCTACCTGAGTACGAAGTGCAGCCATCCAAG  
 TTAGGAGAAGAGGTGGATGATGTTTACCTCATTGAGCTCAGGGTCTGCCCTGGTCTGCACTGTGGAAG  
 ATGTCCTCAGCTTTTCTCAGACTGCAGAATCCGAAACAGTGAGAATGGAATACATTTCTCCTGAACAG  
 AGATGGCAAACGGAGGGCGATGCCTTGATTGAAATGGAGTCCGAGCAGGATGTACAGAAGCCCTTGAA  
 AAGCACCGGATGTACATGGGGCAGCGGTATGTGGAAGTGTATGAAATAACAACGAAGATGTGGATGCCT  
 TAATGAAGAGCCTACAGGTCAAGCCTACGCTGCACTCAGTGACGGTGTGGTCCGCTGAGAGGACTCCC  
 TTACAGCTGCAATGAAAAGGACATTGTGGACTTCTTTCAGGACTGAACATAGTAGACATCACTTTTGTG  
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 AAGCGCTTCTGAAGCACAGGGAAGAGATTGGTAACCGATACATAGAGATATTTCCAAGCAGAAGGAATGA  
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 GAACCAGAAGTGGTGTGGAGAACATGAAGTTAATGAGGACGCTCGGCCATGACAGCTTTTGAAGGTG  
 AAAAAGAGATAGAGTTGCCTAAGGAGATGTCAGCAAACCTGACAGGCTGTTGACTTTGGAGCTGTGCC  
 GTCCTGCATTTTGTCCACATGAGAGGATTGCCTTTCCAAGCCAATGCCAGGACATCAAAATTTCTTT  
 GCCCACTGAAGCCTGTGAGAATCACCATGGAGTACAGCTCCAGCGGAAAGGCCACTGGAGAAGCTGACG  
 TGCACTTTGATACCCATGAGGATGCTGTTGCTGCCATGCTCAAGGACCGTGCATGTCCAACATAGGTA  
 TATTGAGCTGTTCTAAATTCATGTCCTAAAGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216759 representing NM\_001100890  
 Red=Cloning site Green=Tags(s)

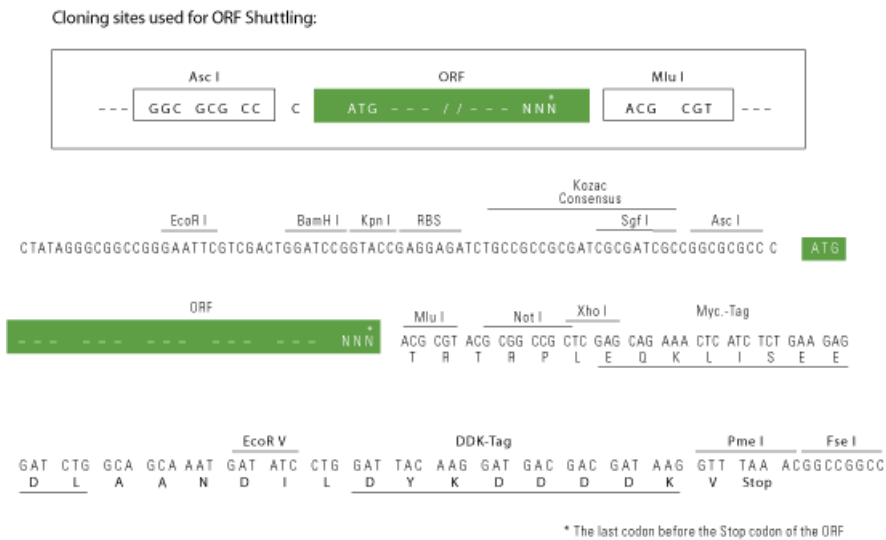
MAGTRWVLGALLRGCNCSSRRRTGAACLPFYSAAGTFPSGVSGRRRLLLLGAASQTRGLQLGP  
 AAAGRLAGPVPVRPSAAAAAASYSALRAPLLPRSLAAAAGPARGYQESKTTYLEDLPPLPEYELSPSK  
 LGEEVDDVYLIRAQGLPWSCTVEDVLSFFSDCRIRNSENIGIHLNDRDGKRRGDALIEMESEQDVQKALE  
 KHRMYMGQRYVEVYEINNEDVDALMKSLQVKPTPALSDGVVRLRGLPYSCNEKDIVDFAGLNIVDITFV  
 MDYRGRRTGEAYVQFEEPEMANQALLKHREEIGNRYIEIFPSRRNEVRTHVGSKHKMKMVSSPTTKYIT  
 EPEVVFEHEVNEDARPMTAFESEKEIELPKEMSDKLAEAVDFGAVPSLHFVHMRGLPFQANAQDIINF  
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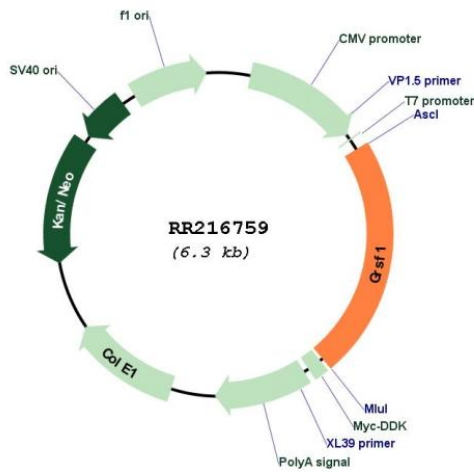
**Restriction Sites:**

Ascl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001100890

**ORF Size:** 1437 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\\_001100890.1](#), [NP\\_001094360.1](#)

**RefSeq Size:** 2724 bp

**RefSeq ORF:** 1440 bp

**Locus ID:** 305256

**Cytogenetics:** 14p22

**MW:** 52.9 kDa