

Product datasheet for **RG223109**

HSFY1 (HSFY2) (NM_001001877) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HSFY1 (HSFY2) (NM_001001877) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HSFY2
Synonyms: HSF2L; HSFY
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223109 representing NM_001001877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACATGTTTCTTCAGAACTCAAGATGTTTCCCCAAAGATGAATTAAGTCTTCAGAAAGCTCCA
 CTAGGTCTCCATTGTGTGAACACACCTTCCCTGGGGACTCAGACTTACGGTCAATGATTGAAGAATGC
 TTTTCAGTTTTGTGACAAAGGATCCTTGTAGAAAGTCCAAGTTACACAGTTTGTGTCTCTGAGCCAGAT
 AAAGATGATGATTTTCTTCTGAACTTCCAGGAACTTTGGAAAATAGTGGAAAGTGACCAATTCA
 AGTCTATTTTCATGGGATGAGAATGGAAGTGCATAGTATTAATGAAGAACTCTCAAGAAAGAAATTTT
 GGAAACAAAGGCTCCTTACAGAATATTTCAAAGTATGCTATCAAAAGTTTTGTTTCGACAGCTCAACCTT
 TATGGATTTAGTAAATCAACAGAATTTCAAAGATCTGCCTTTCTAGCCACCTTTCTGTGAGAAGAGA
 AAGAATCGTCTGTCTTAAGCAAGATACGCTTACCAAAAATGAACTTTCCAGATCTTCAACTTATGAAA
 CAGGTATTTATGTTGCAACTTACATTTAAAGATGAGTCGAATTACTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223109 representing NM_001001877
 Red=Cloning site Green=Tags(s)

MAHVSSETQDVSPKDEL TASEASTRSPLCEHTFPGSDLRSMIEEHAFQVLSQGSLLLESPSYTVCVSEPD
 KDDDFLSLNFPRKLWKIVESDQFKSISWDENGTICIVINEELFKKEILETAKPYRIFQTDAIKSFVRQLNL
 YGFSKIQQNFQRS AFLATFLSEEKESVLSKIRFTKMKLSRSSTYENRYLCCNLHLKDESNY

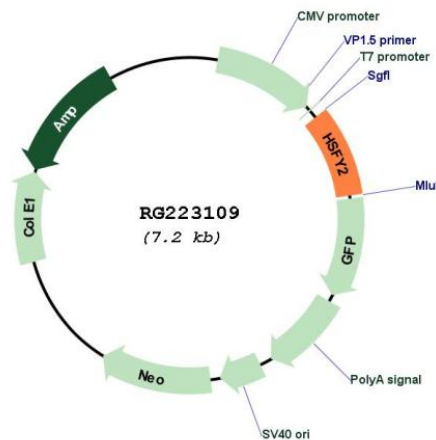
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001001877

ORF Size: 609 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_001001877.1](#), [NP_001001877.1](#)

RefSeq Size: 1038 bp

RefSeq ORF: 612 bp

Locus ID: 159119

UniProt ID: [Q96LI6](#)

Cytogenetics: Yq11.222

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the heat shock factor (HSF) family of transcriptional activators for heat shock proteins. This gene is a candidate gene for azoospermia, since it localizes to a region of chromosome Y that is sometimes deleted in infertile males. The genome has two identical copies of this gene within a palindromic region; this record represents the more telomeric copy. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]