

## Product datasheet for **RG214577**

### HSFY1 (HSFY2) (NM\_153716) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HSFY1 (HSFY2) (NM\_153716) 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:** >RG214577 representing NM\_153716  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACATGTTTCTTCAGAACTCAAGATGTTTCCCCAAAGATGAATTAAGTCTTCAGAAAGCTCCA  
CTAGGTCTCCATTGTGTGAACACACCTCCCTGGGGACTCAGACTACGGTCAATGATTGAAGAATGC  
TTTTAGGTTTGTGACAAAGGATCCTTGTAGAAAGTCCAAGTTACACAGTTTGTGTCTCTGAGCCAGAT  
AAAGATGATGATTTTCTTCTGAACTTTCCAGGAACTTTGGAAAATAGTGGAAAGTGACCAATTCA  
AGTCTATTTTCATGGGATGAGAATGGAAGTGCATAGTATTAATGAAGAACTCTCAAGAAAGAAATTTT  
GGAAACAAGGCTCCTTACAGAATATTTCAAAGTATGCTATCAAAAGTTTTGTTGACAGCTCAACCTT  
TATGGATTTAGTAAAATCAACAGAATTTCAAAGATCTGCCTTTCTAGCCACCTTTCTGTGAGAAGAGA  
AAGAATCGTCTGTCTAAGCAAGTTAAAGTTCTATTATAATCAAATTTCAAGCGTGGCTATCCCCAACT  
TTAGTAAGAGTGAAGAGAAGAATTGGTGTAAAAATGCTTACCTATATCTACTTTATTCAACGAAGAT  
TTCAACAAGAAGCATTTTAGAGCAGGGGCTAACATGGAGAATCATAATTCTGCCTTAGCTGCTGAAGCTA  
GTGAAGAAAGTTATTTTCAGCCTCTAAAAATTTAAATATGCCTTAACAAGGGAATCTTCTGTGACACA  
GATAATTGCAAATTCATCTGTCCCATTAGAAGTGGTTTCCCTCCTTCACTTCAACCTCAGTTGGA  
CCATCAGAACAAATGCAACAGATCAACATGCTATTTAAATCAGTTGACCACTATTCATATGCATCTC  
ATAGTACCTACATGCAAGCAAGGGCCACATTGTGAATTTTATTACAACCACAACCTCTCAATACCCACAT  
CATATCTCCCTTACAAAATGGTTATTTTGGGCTGACAGTGAACCATCTGCTGTTCCACACGATATCCT  
CTGGTATCAGTCAATGAGGCTCCATATCGTAACATGCTACCAGCAGGCAACCCGTGGTTGCAAAATGCCTA  
CGATCGCTGATAGATCAGCTGCCCTCATTCCAGGCTAGCTTTCAACCATCACCCTGGACAAATATCA  
CCCTAATTACAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214577 representing NM\_153716  
 Red=Cloning site Green=Tags(s)

MAHVSSETQDVSPKDEL TASEASTRSP LCEHTFP GSDSLRSMIEEHAFQVLSQGSLLLESPSYTVCVSEPD  
 KDDDFLSLNFPRKLWKIVESDQFKSISWDENGT CIVINEELFKKEILETKAPYRIFQTD AIKSFVRQLNL  
 YGFSKIQQNFQRSAFLATFLSEEKESVLSKLFYYPNPFKRGYPQLLVRVKRRIGVKNASPISTLFNED  
 FNKKHFRAGANMENHNSALAAEASEESLFSASKNLNMPL TRESSVRQIIANSSVPIRSGFPPSPSTSVG  
 PSEQIATDQHAILNQLTTIHMHSHTYMQARGHIVNFITTTTSQYHIISPLQNGYFGLTVEPSAVPTRYPL  
 LVSVNEAPYRNMLPAGNPWLQMPTIADRS AAPH SRLALQPSPLDKYHPNYN

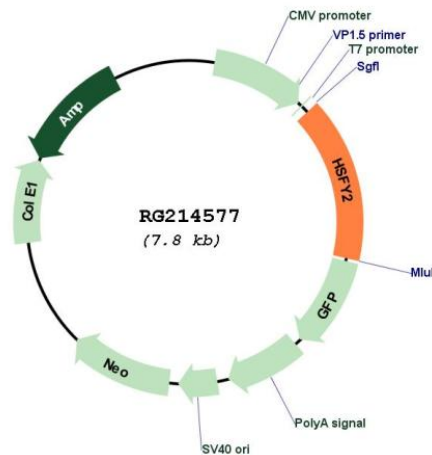
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_153716

<b>ORF Size:</b>	1203 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_153716.2</a>
<b>RefSeq Size:</b>	1443 bp
<b>RefSeq ORF:</b>	1206 bp
<b>Locus ID:</b>	159119
<b>UniProt ID:</b>	<a href="#">Q96LI6</a>
<b>Cytogenetics:</b>	Yq11.222
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]