

Product datasheet for **SC125803**

HSFY1 (HSFY2) (NM_001001878) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSFY1 (HSFY2) (NM_001001878) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSFY1
Synonyms:	FLJ25453; heat shock transcription factor, Y linked 2; heat shock transcription factor 2-like; HSF2L; HSFY; HSFY, HSF2L, FLJ25453; OTTHUMP00000038975
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001001878 edited

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GGGGAGCATTTGAAGCTGCAGTCTGAAAACCATGCAGGCCGGAAGAGTAGATAAAGAAA
TATTTATTTGAGATGGCACATGTTTCTTCAGAACTCAAGATGTTTCCCCAAAGATGAA
TTAACTGCTTCAGAAGCCTCCACTAGGTCTCCATTGTGTGAACACACCTTCCCTGGGGAC
TCAGACTTACGGTCAATGATTGAAGAACATGCTTTTCAGGTTTTGTCCACAAGGATCCTTG
TTAGAAAAGTCCAAGTTACACAGTTTGTGTCTCTGAGCCAGATAAAGATGATGATTTTCTT
TCTCTGAACTTTCCAGGAACTTTGGAAAATAGTGAAAAGTGACCAATTCAAGTCTATT
TCATGGGATGAGAATGGAAGTTCATAGTATTAATGAAGAAGTCTTCAAGAAAGAAATT
TTGGAAACAAAGGCTCCTTACAGAATATTTCAAAGTATGCTATCAAAAAGTTTTGTTTGA
CAGCTCAACCTTTATGGATTTAGTAAAATCAACAGAATTTTCAAAGATCTGCCTTTCTA
GCCACCTTTCTGTCAGAAGAGAAAAGATCGTCTGTCTTAAGCAAGCTTCATGTCTTTGTG
TTTACCACAGTCTATTTGGAGCAACATTCGGAGAACATCACTTTTCAGCCATGCCCTTTA
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AATGGGATACACTGGGGATCCAGCTGCACAACCTTTTCGGAAGCAGCATTCACTGTGGATT
TGGTATATTATGCAGCTTTTGGTGTACAGGCTAAGGTCTGACAAGATTACCATGCAGT
TTTCTGGGATAGCAGAAAATGAACATGGATTTGGACAGCCAGATTCTCAGGATGAAAAC
CTAGTGGTGCCATCTAACCATATACGTATATTTCCAAGTTGTGCATAAGTAGAAAAAGTT
TAGAATCCATCATCTAAAAAGGGAATCCTGATTTCTTTCTGGCAGACCATGACAGAAA
GACAAAGGTCAATTCACCTATATCCACATGCTATTAACCTTTTGTCTCAAAGTGGGTT
TTCAGAAGGTAGTGTGATAGACATGGTTAAATGGTTAACAGGAAGAATGTTTAAAAAAA
AATTCGGCTGGGTTGGTGGCTCAGGCTGTAATCACAGCATTTTGGGAGGCCAAGCTGA
GTCAGGAGAATCGCTTGAACCCAGGAGGCGGAGGTTGCAGTAAGCTGAGATCCTGCTTTT
GCGCTCCAGCCTGGGTGACAGAGTAAGACTTCATCTTAAAGAAAATCCACAACAATAAAAA
GGCTAATGCCAGACACAATAAAAAATGAAAAGAATAAAGTGGGTGAACAGCAAGGCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001001878 unedited NAAGGGGGTTCGGATTTGTATACCATCATATAGGCGGCCCGAATCGCCTTACGCCGGGAG CATTTGAACTGCATCCGGGGGCTGCGGCCGAAAATANATAAAGAAATTTTATTTGAGA TGGCACATGTTTCTTCAGAACTCAAGATGTTTCCCCAAAGATGAATTAAGTCTTCAG AAGCTCCACTAGGTCTCATTGTGTGAACACACCTTCCCTGGGGACTCGGGGGCGGGC AATGATTGAAGAACATGCTTTTCAGTTTTGTGACAAAGGATCCTGTTAGAAAAGTCCAAG TTACACAGTTTGTCTCTGAGCCAGATAAAGATGATGATTTTCTTCTGAACTTTCC CAGGAAACTTTGGAAAATAGTGGAAAGTGACCAATTCAAGTCTATTTTCATGGGATGAGAA TGGAACTTGCATAGTGATTAATGAAGAACTCTCAAGAAAGAAATTTGGAAACAAGGC TCCTTACAGAATATTTCAAAGTATGCTATCAAAAGTTTTGTTCGACAGCTCAACCTTTA TGGATTTAGTAAAATTCACAGAATTTTCAAAGATCTGGCTTTCTAGCCACCTTTCTGTC AGAAAAGAAAAGTTCGTCTGTCTTAAGCAAGCTTCATGTCTTTGTGTTTACCACAGTCT ATTTGGGGCAACATTCGGGAGACATCACTTTCCAGGCTTGCCTTTTACCATCTGGGAACA AGGGTCCCCTTTTACTTGGGGGGAAAATCTGGGTGCTGGGAGGAATGGGAACCCTGG GGTCCTCCGCTGCCAACTTTTCGGAGCCCCTTACTGTGGATTGGGATTTATCCACTTTTGG GCCCAGGTAAGGCTGACAAAGACCCG
Restriction Sites:	Please inquire
ACCN:	NM_001001878
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_001001878.1, NP_001001878.1</u>
RefSeq Size:	1476 bp
RefSeq ORF:	1476 bp
Locus ID:	159119
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]

Transcript Variant: This variant (3) has four additional exons and uses an alternate 3' exon in the coding region resulting in a frameshift and earlier termination codon, compared to variant 1. The resulting isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1. Isoform 3 lacks the HSF-type DNA-binding domain found in isoform 1.