

## Product datasheet for **SC317896**

### WHSC2 (NELFA) (NM\_005663) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WHSC2 (NELFA) (NM_005663) Human Untagged Clone
Tag:	Tag Free
Symbol:	WHSC2
Synonyms:	NELF-A; P/OKcl.15; WHSC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317896 representing NM\_005663.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCGGGGCAGCGCGCGCGCTTCCCCCAAGATGGCGTCCATGCGGGAGAGCGACACGGGCCGTGTGG
CTGCACAACAAGCTGGGGGCCACGGACGAGCTGTGGCGCGCCAGCATCGCGTCCCTGCTCACGGCC
GCGGTTCATCGACAACATCCGTCTCTGCTCCATGGCCTCTCGTCGGCAGTGAAGCTCAAGTTGCTACTC
GGGACGCTGCACCTCCCGCGCCGACGCGTGGACGAGATGAAGGGCGCCCTAATGGAGATCATCCAGCTC
GCCAGCTCGACTCGGACCCCTGGGTGCTCATGGTTCGCCGACATCTTGAAGTCTTTCCGGACACAGGC
TCGCTTAACCTGGAGCTGGAGGAGCAGAATCCCAACGTTCCAGGATATTTGGGAGAACTTAGAGAAAAG
GTGGGTGAGTGTGAAGCGTCTGCCATGCTGCCACTGGAGTCCAGTACTTGAACAAAAACGCCCTGACG
ACCCTCGCGGGACCCCTCACTCCCGCGGTGAAGCATTTCAGTTAAAGCGGAAACCAAGAGCGCCACG
CTGCGGGCGGAGCTGCTGCAGAAGTCCACGGAGACCGCCAGCAGTTGAAGCGGAGCGCCGGGTGCC
TTCCACGCCAAGGGCCGGGGCTGCTGCGGAAGATGGACACCACCACCCACTCAAGGCATCCCGAAG
CAGGCGCCCTTCAAGAAGCCACGGCGCCAGCGTCTTACGCCCCACAGGGAACCGGACCCCATCCCG
CCTTCCAGGACGCTGCTGCGGAAGGAACGAGGTGTGAAGCTGCTGGACATCTCTGAGCTGGATATGTT
GGCGCTGGCCGAGAGGCGAAGCGGAGAAGGAACTCTCGATGCGGAGGTGGTGGAGAAGCCGGCCAAG
GAGGAAACGGTGGTGGAGAAGCCACCCCGGACTACGCAGCCGGCCTGGTGTCCACGCAGAACTGGG
TCCCTGAACAATGAGCCTGCGCTGCCCTCCACGAGCTACCTTCCCTCCACGCCAGCGTGGTTCCCGCC
TCCTCTACATCCCAGCTCCGAGACGCCCCAGCCCCATCTTCCCGGAAGCCAGCCGCCACCCAGAG
GAGCCCAGCGCCCGAGCCACGTTGCCAGCGCAGTTCAAGCAGCGGGCGCCATGTACAACAGCGGC
CTGAGCCCTGCCACCCACGCTGCGGGCCACCTCGCCTTGACACCCACCACACCTCCGGCTGTC
GCCCTACCACTCAGACACCCCGGTTGCCATGGTGGCCCCGACAGCCAGGCCCTGCTCAGCAGCAG
CCTAAGAAGAACCTGTCCCTCACGAGAGAGCAGATGTTGCTGCCAGGAGATGTTCAAGACGGCCAAC
AAAGTCACGCGGCCGAGAAGGCCCTCATCTGGGCTTCATGGCCGGCTCCCGAGAGAACCCTGCCAG
GAGCAGGGGGACGTGATCCAGATCAAGCTGAGCGAGCACACGGAGGACCTGCCAAGGGCGGACGGCCAG
GGTAGCACAACCATGCTGGTGGACACAGTGTGGAGATGAACTATGCCACGGGCCAGTGGACGCGCTC
AAGAAGTACAAGCCCATGACCAATGTGCTTAG
ACGGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_005663
- Insert Size:** 1620 bp
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_005663.4](#)

**RefSeq Size:** 2479 bp

**RefSeq ORF:** 1620 bp

**Locus ID:** 7469

**UniProt ID:** [Q9H3P2](#)

**Cytogenetics:** 4p16.3

**Protein Families:** Transcription Factors

**MW:** 58.5 kDa

**Gene Summary:** This gene is expressed ubiquitously with higher levels in fetal than in adult tissues. It encodes a protein sharing 93% sequence identity with the mouse protein. Wolf-Hirschhorn syndrome (WHS) is a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4. This gene is mapped to the 165 kb WHS critical region, and may play a role in the phenotype of the WHS or Pitt-Rogers-Danks syndrome. The encoded protein is found to be capable of reacting with HLA-A2-restricted and tumor-specific cytotoxic T lymphocytes, suggesting a target for use in specific immunotherapy for a large number of cancer patients. This protein has also been shown to be a member of the NELF (negative elongation factor) protein complex that participates in the regulation of RNA polymerase II transcription elongation. [provided by RefSeq, Jul 2008]