

## Recombinant Human WHSC2, His-tagged

**Cat. No.** WHSC2-30860TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human WHSC2 (amino acids 1-539) with an N terminal His tag; 569 amino acids with tag, Predicted MWt 60.6kDa,
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	539 amino acids
<b>Description</b>	<p>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.</p>
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	60.600kDa inclusive of tags

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<b>Form</b>	Liquid
<b>Purity</b>	by SDS-PAGE
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.32% Tris HCl, 1.17% Sodium chloride, 0.08% DTT, 0.03% EDTA, 20% Glycerol
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	<p>MGSSHHHHHHSSGLVPRGSHMPGQRRALSPKMASMRESDT GLWLHNKLGATDE  LWAPPSIASLLTAAVIDNIRLCFHGLS SAVKLLKLLGTLHLPRRTVDEMKGALMEIQL  ASLDSDPW VLMVADILKSFPDGTSLNLELEEQNPVQDILGELREKVG ECEASAML  PLECQYLNKNALTTLAGPLTPPVKHFQLKRKP KSATLRAELLQKSTETAQQLKRSAG  VPFHAKGRGLLRKMD TTTPLKGIPKQAPFRSPTAPSVFSPTGNRTPIPPSRTLLR KE  RGVKLLDISELDMVGAGREAKRRRKTLDAEVVEKPAKE ETVVENATPDYAAGLVST  QKLGSLNNEPALPSTSYLPSTP SVVPASSYIPSSETPPAPSSREASRPPEEPSAPSP  TLPAQ FKQRAPMYNSGLSPATPTPAAPTSPPTTPPAVAPTTQT PPVAMVAPQTQ  APAQQQPKNLSLTREQMFAAQEMFKTAN KVTRPEKALILGFMAGSRENPCQEQG  DVIQIKLSEHTEDL PKADGQGSTTMLVDTV FEMNYATGQWTRFKKYKPMTNVS</p>
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	WHSC2 Wolf-Hirschhorn syndrome candidate 2 [ Homo sapiens ]
<b>Official Symbol</b>	WHSC2
<b>Synonyms</b>	WHSC2; Wolf-Hirschhorn syndrome candidate 2; negative elongation factor A; NELF A;
<b>Gene ID</b>	7469

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<b>mRNA Refseq</b>	NM_005663
<b>Protein Refseq</b>	NP_005654
<b>MIM</b>	606026
<b>Uniprot ID</b>	Q9H3P2
<b>Chromosome Location</b>	4p16.3
<b>Pathway</b>	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; Formation and Maturation of mRNA Transcript, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem; Formation of RNA Pol II elongation complex, organism-specific biosystem;

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