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Product datasheet for SC100830

IWS1 (NM_017969) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IWS1 (NM_017969) Human Untagged Clone
Tag:	Tag Free
Symbol:	IWS1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC100830 sequence for NM_017969 edited (data generated by NextGen Sequencing)

ATGGACTCGGAATATTACAGCGGCGACCAGTCAGATGATGGTGGTGCTACCCCAGTACAG
GATGAACGGGATTCAGGGTCAGACGGTGAGGATGATGTAAATGAGCAACACTCCGGATCA
GACACTGGAAGTGTAGAACGTCATTCAGAGAATGAAACTAGTGATCGAGAAGATGGCCTC
CCCAAAGGACATCATGTGACAGACTCTGAGAACGATGAGCCCTTAAATCTTAATGCTAGT
GACTCTGAAAGTGAGGAGCTTCACAGGCAAAAGGACAGCGACTCTGAATCTGAGGAACGT
GCAGAGCCTCCTGCAAGCGATTCTGAAAATGAGGATGTCAATCAGCATGGGAGCGACTCT
GAGAGTGAAGAGACCAGGAAATTACCTGGTAGTGACTCTGAAAATGAGGAACTTCTTAAT
GGGCATGCAAGTGACTCAGAAAACGAAGATGTTGGGAAGCATCCCGCCAGTGATTCTGAG
ATTGAGGAGCTCCAGAAGAGTCCTGCTAGTGACTCTGAAACAGAAGATGCTCTAAAACCT
CAAATCAGTGACTCTGAGAGTGAGGAACCCCCAAGGCACCAAGCCAGTGACTCCGAAAAT
GAGGAGCCTCCCAAACCTCGAATGAGTGATTCTGAAAGTGAGGAGCTTCCTAAACCTCAG
GTCAGTGATTCAGAAAGTGAGGAACCCCCAAGGCACCAGGCCAGTGACTCTGAAAATGAG
GAGCTTCCCAAACCTCGTATCAGTGACTCAGAAAGTGAGGACCCTCCGAGGCACCAGGCC
AGTGACTCAGAAAATGAAGAGCTTCCCAAACCCCGAATCAGTGATTCGGAAAGTGAGGAT
CCCCCAAGGAACCAGGCCAGTGATTCGGAAAATGAGGAGCTACCCAAACCCCGAGTCAGT
GACTCTGAGAGTGAGGTGCCTCAGAAGGGGCCTGCCAGTGACTCAGAAACTGAGGATGCG
TCCAGACACAAACAGAAGCCAGAGTCAGATGATGACAGCGACAGGGAGAATAAGGGAGAG
GATACAGAAATGCAGAATGACTCCTTCCATTCAGACAGCCATATGGACAGAAAAAAGTTT
CACAGTTCTGATAGTGAGGAGGAAGAACACAAAAAGCAAAAAATGGACAGTGATGAAGAT
GAAAAAGAGGGTGAGGAGGAGAAAGTAGCGAAGAGAAAAGCTGCTGTGCTTTCTGATAGT
GAAGATGAAGAGAAAGCATCAGCAAAGAAGAGTCGTGTTGTCTCTGATGCAGATGACTCT
GACAGTGATGCTGTATCAGACAAGTCAGGCAAAAGAGAGAAGACCATAGCATCTGACAGT
GAGGAAGAAGCTGGGAAAGAATTGTCTGATAAGAAAAATGAAGAGAAGGATCTGTTTGGG
AGTGACAGTGAGTCAGGCAATGAAGAAGAAAATCTTATTGCAGACATATTTGGAGAATCT
GGTGATGAAGAGGAAGAAGAATTTACAGGTTTTAACCAAGAAGATCTGGAAGAAGAAAAA
GGTGAAACACAGGTAAAAGAAGCAGAAGATTCAGATTCTGATGATAACATAAAGAGAGGA
AAACATATGGACTTTCTGTCAGATTTTGAGATGATGTTGCAGCGAAAAAAGAGCATGAGT
GGCAAGCGCAGACGGAACCGCGATGGTGGCACCTTTATTAGTGATGCAGACGACGTCGTG
AGTGCCATGATCGTCAAGATGAATGAAGCTGCTGAGGAAGACAGACAGTTGAACAATCAA
AAAAAGCCAGCACTGAAAAAATTAACTTTACTGCCTGCTGTAGTTATGCACCTTAAGAAG
CAGGACCTTAAAGAAACATTCATTGACAGTGGTGTGATGTCTGCCATCAAAGAATGGCTC
TCACCTCTACCAGATAGGAGTTTGCCTGCACTCAAGATCCGGGAGGAGCTGCTGAAGATC
CTGCAAGAGCTGCCTAGTGTGAGCCAGGAGACCCTGAAGCATAGTGGGATTGGACGAGCA
GTGATGTATCTCTATAAACACCCCAAGGAGTCAAGGTCTAACAAGGACATGGCAGGGAAA
TTAATCAATGAGTGGTCTAGGCCTATATTTGGTCTTACCTCAAACTACAAAGGAATGACA
AGAGAAGAAAGGGAGCAGAGAGATCTAGAACAGATGCCTCAACGACGAAGAATGAACAGC
ACTGGTGGTCAGACACCCAGAAGAGACCTGGAAAAGGTGCTGACAGGAGAGGAGAAGGCT
CTTAGACCTGGAGATCCTGGATTCTGTGCCCGTGCAAGGGTCCCAATGCCTTCAAACAAG
GACTATGTTGTCAGGCCCAAATGGAATGTGGAAATGGAGTCATCCAGGTTTCAGGCGACC
TCCAAGAAGGGTATCAGTCGACTGGATAAACAGATGAGAAAGTTCACAGATATAAGGAAA
AAAAGCAGATCTGCACACGCAGTGAAAATCAGCATTGAGGGCAACAAAATGCCATTGTGA

Clone variation with respect to NM_017969.2
917 g=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017969 unedited
GGTGCAAATTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGGCTCGCATG
CCTGCCCGCCCGCCAGCCTGCCGGGTACGGCCTTTTCCGCCGGGGCTTCCAGGTCAAAGA
ATTCGCCTTTGCCGCTACCGCTTTCTTACCCTCCGCACCCGTTAAGTTCTCCGGTCGGGC
GGCAGTCTCTGAACACTTAGCCGCGCCATCCGGGGTCACACCGCCTGGAAGGAGGTGACG
GGGGCGGCGCGGGGCGCGGACACTCCCCGCTGAGAGTCCGCCTGCCATGGACTCGGAATA
TTACAGCGGCGACCAGTCAGATGATGGTGGTGCTACCCCAGTACAGGATGAACGGGATTC
AGGGTCAGACGGTGAGGATGATGTAAATGAGCAACACTCCGGATCAGACACTGGAAGTGT
AGAACGTCATTCAGAGAATGAAACTAGTGATCGAGAAGATGGCCTCCCCAAAGGACATCA
TGTGACAGACTCTGAGAACGATGAGCCCTTAAATCTTAATGCTAGTGACTCTGAAAGTGA
GGAGCTTCACAGGCAAAAGGACAGCGACTCTGAATCTGAGGAACGTGCAGAGCCTNCTGC
AAGCGATTCTGAAAATGAGGATGTCAATCAGCATGGGAGCGACTCTGAGAGTGAAGAGAC
CAGGAAATTACCTGGTAGTGACTCTGAAAATGANGAACTTCTTAATGGGCATGCAAGTGA
CTCAGAAACGAAGATGTTGGGAAGCATCCNGNCAGTGATTCTGAGATTGAGGAGCTCCAG
AGAGTCCTGCTAGTGACTCTGAAACAGAAGATGCTCTTAAACCTCAAATCAGTGACTCTG
AGAGTGAGGAACCCCCCAGGCACCAAGCCAGTGACTTCGGAAATGAGGAGCCTCCCAACC
TCCAATGAGTGATTCTGAAAGTGAGAGCTTCCTAAACTCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017969 unedited
NNGGGTTCCACTATGNNACCGCGGCCGCATNCTAGNGATCGATTTTTTTTTTTTTTTTTT
TAACCANAATGAAATTTTATTGTGTAAAGTTTATAGAAGTATGACTAGTATTCCTTTGTA
CAAAGTACACAACGGTTTTAAATATAACTGAGAGAAATGTGAGTCCTATGACAACATCTG
ATACACGCTGAACCATTTACAGACACACTAAAAATGTTTTAAAATATCTTCTTTCTCCAA
AGAGTCCATTGCGCATTTCTTAGAGTAGAGATGGGGACACATTCCAGGCAAGGTCACAAT
GGCATTTTGTTGCCCTCAATGCTGATTTTCACTGCGTGTGCAGATCTGCTTTTTTTCCTT
ATATCTGTGAACTTTCTCATCTGTTTATCCAGTCGACTGATACCCTTCTTGGAGGTCGCC
TGAAACCTGGATGACTCCATTTCCACATTCCATTTGGGCCTGACAACATAGTCCTTGTTT
GAAGGCATTGGGACCCTTGCACGGGCACAGAATCCAGGATCTCCAGGTCTAAGAGCCTTC
TCCTCTCCTGTCAGCACCTTTTCCAGGTCTCTTCTGGGTGTCTGACCACCAGTGCTGTTC
ATTCTTCGTCGTTGAGGCATCTGTTCTAGATCTCTCTGCTCCCTTTCTTCTCTTGTCATT
CCTTTGTAGTTTGAGGTAAGACCAAATATAGGCCTAGACCACTCATTGATTAATTTCCCT
GCCATGTCCTTGTTAGACCTTGACTCCTTGGGGTGTTTATAGAGATACATCACTGCTCGT
CCAATCCCACTATGCTTCAGGGNTCTCTGGCTCACACTANGCAGCTCTTGCAGGATCTTC
AGCAGCTCCTCCCGGATACTGAGTGCAGGCAAACTCCTATCTGGTAGAAGTGN

Restriction Sites: NotI-NotI

ACCN: NM_017969

Insert Size: 3000 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).

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_017969.1, NP_060439.1
RefSeq Size:	2950 bp
RefSeq ORF:	2460 bp
Locus ID:	55677
UniProt ID:	Q96ST2
Cytogenetics:	2q14.3
Gene Summary:	Transcription factor which plays a key role in defining the composition of the RNA polymerase II (RNAPII) elongation complex and in modulating the production of mature mRNA transcripts. Acts as an assembly factor to recruit various factors to the RNAPII elongation complex and is recruited to the complex via binding to the transcription elongation factor SUPT6H bound to the C-terminal domain (CTD) of the RNAPII subunit RPB1 (POLR2A). The SUPT6H:IWS1:CTD complex recruits mRNA export factors (ALYREF/THOC4, EXOSC10) as well as histone modifying enzymes (such as SETD2) to ensure proper mRNA splicing, efficient mRNA export and elongation-coupled H3K36 methylation, a signature chromatin mark of active transcription.[UniProtKB/Swiss-Prot Function]