

## Product datasheet for **SC305824**

### HE4 (WFDC2) (NM\_080736) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HE4 (WFDC2) (NM_080736) Human Untagged Clone
Tag:	Tag Free
Symbol:	HE4
Synonyms:	HE4, WAP5, MGC57529, dj461P17.6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_080736 edited ATGCCTGCTTGTGCGCTAGGCCCGCTAGCCGCCCTCCTCCTCAGCCTGCTGCTGTTCCAGCTTACCCCTAGTCTCAGGCACAGGAGCAGAGAAGACTGGCGTGTGCCCGAGCTCCAGGCTGACCAAGAAGTGCACGCAAGAGTGCCTCTCGGACAGCGAATGCGCCGACAACCTCAAGTGTGCTGCGCGGGCTGTGCCACCTTCTGCTCTCTGCCAATGCACTGTTCCACTGGCACCTAAAGACACGGAGGCTCTGGGAGATTTCTGGCCCTAGGCCACGAAGGCCCACTGGGACTCAAGCTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080736 unedited AATAAATTGTGCCTCCTAATCGTAAACGACTCCTATAGGGCGCCGTAATTATGCCTGCTTGTGCGCTAGGCCCGCTAGCCGCCCTCCTCCTCAGCCTGCTGCTGTTCGGCTTCCAGTCTCAGGCACAGGAGCAGAGAAGACTGGCGTGTGCCCGAGCTCCAGGCTGACCAAACTGCACGCAAGAGTGCCTCTCGGACAGCGAATGCGCCGACAACCTCAAGTGTGCGCGGGCTGTGCCACCTTCTGCTCTCTGCCATGCACTGTTCCACTGGCACCTAAAGACACGGAGGCTCTGGGAGATTTCTGGCCCTAGGCCACGAAGGCCCACTGGGACTCAAGCTGACTCGACTCTAAATTGCGGCCGCGGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGGCCACCGCCTTGTACTAATAAAATTAACCTGCATCATTTAGACTGACTAAGTGCCTTCCATAATATTATCGGGTCCAGGGGGTGGTATGGAGCCAGGCACATTAAGAATATAACTAGTAG



[View online »](#)

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_080736 unedited AGGCACGGAAACTAGGGCAGGAGAGGCACCGGGGAGGGGTAAGGGAGCACCCGGGATTGC CGGAAAAGCCACGACCGCGGCCGCAATCTAGAGACGAGACAGCAGCAGCCCAAGCGGGC CCCCGTGGCCTAGGGCCAGAAATCTCCAGAGCCTCCGTGCCCTTAGGCGCCAGTGGAAC AGTGCATCGGGCAGAGAGCAGAAGGTGGCACAGCCGCGCCGAGCACCCGAGGTCGTCCG GCGCATACGCTGTCCGAGACGCACTCTTGCCTGAGACTAGGGTGAAGCCGAACAGCAGCAGG CACACGCCAGTCTTCTCTGCTCCTGTGCCTGAGACTAGGGTGAAGCCGAACAGCAGCAGG CTGAGGAGGAGGGCGGGCTAGCGGGCTAGGGGACAAGCAGGCATGAATTCGCGGCCG CCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCCTAAACGAGCTCTGCTTATATA GACCTCCACCGTACACGCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACGACA TTTTGAAAGTCCCGTTGATTTTGGTGCCAAAACAACTCCCATTGACGTCAATGGGGTG GAGACTTGAAATCCCCGTGAGTCAAACCGCTATCCACGCCATTGGTGTACTGCCAAA CCGCATCACCATGGTAATAGCGATGACTAATACGTAGATGTACTGCCAAGTAGAAAGTCC CGTAAGGTCACTGACTGGGCATAATGCCAGGCGGGCCATTTACCGTCATTGACGTCAATA GGGGCGGACTTGGCATATGATACACTTGTACTGCAAGTGGGCAGTTTACCGTAATA CTCCACCCATTGACGTCAATGGGAAAGCCCTATTGGCGTTACTATGGGAACATACGT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_080736
<b>Insert Size:</b>	300 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<u><a href="#">NM_080736.1</a></u> , <u><a href="#">NP_542774.1</a></u>
<b>RefSeq Size:</b>	358 bp
<b>RefSeq ORF:</b>	309 bp
<b>Locus ID:</b>	10406
<b>Cytogenetics:</b>	20q13.12
<b>Protein Families:</b>	Secreted Protein, Transmembrane

**Gene Summary:**

This gene encodes a protein that is a member of the WFDC domain family. The WFDC domain, or WAP Signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor in many family members. This gene is expressed in pulmonary epithelial cells, and was also found to be expressed in some ovarian cancers. The encoded protein is a small secretory protein, which may be involved in sperm maturation. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) contains an alternate 3' end including a portion of the coding region and the 3' UTR, as compared to variant 1. Isoform 2 encoded by this variant thus has a distinct C-terminus from that of isoform 1, and it is smaller and contains only one WFDC domain.