

## Product datasheet for **SC110148**

### HE4 (WFDC2) (NM\_006103) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HE4 (WFDC2) (NM\_006103) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** HE4  
**Synonyms:** dj461P17.6; EDDM4; HE4; WAP5  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_006103 edited  
 ATGCCTGCTTGTGCGCTAGGCCCGCTAGCCGCCCTCCTCAGCCTGCTGCTGTTCC  
 GGCTTACCCTAGTCTCAGGCACAGGAGCAGAGAAGACTGGCGTGTGCCCGAGCTCCAG  
 GCTGACCAGAAGTGCACGCAAGAGTGCCTCTCGGACAGCAATGCGCCGACAACCTCAAG  
 TGCTGCAGCGCGGGCTGTGCCACCTTCTGCTCTCTGCCCAATGATAAGGAGGGTTCCTGC  
 CCCCAGGTGAACATTAACCTTTCCCCAGCTCGGCCTCTGTGCGGACCAGTGCCAGGTGGAC  
 AGCCAGTGTCTGGCCAGATGAAATGCTGCCGCAATGGCTGTGGGAAGGTGCTCTGTGTC  
 ACTCCCAATTTCTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_006103 unedited  
 NGGGTTTTTCAAATTTTNTATACGACTCCTATAGGGCGCGGATTTCGGCACGAGCAC  
 ACCTGCACCCCGCCGGGCATAGCACCATGCTGCTTGTGCGCTAGGCCCGCTAGCCGCC  
 GCCCTCCTCAGCCTGCTGCTGTTTCGGCTTACCCTAGTCTCAGGCACAGGAGCAGAG  
 AAGACTGGCGTGTGCCCGAGCTCCAGGCTGACCAGAAGTGCACGCAAGAGTGCCTCTCG  
 GACAGCGAATGCGCCGACAACCTCAAGTGTGACGCGGGGCTGTGCCACCTTCTGCTCT  
 CTGCCCAATGATAAGGAGGGTTCCTGCCCCAGGTGAACATTAACCTTTCCCCAGCTCGGC  
 CTCTGTGCGGACCAGTGCCAGGTGGACAGCCAGTGTCTGGCCAGATGAAATGCTGCCGC  
 AATGGCTGTGGGAAGGTGCTCTGTGCTACTCCCAATTTCTGAGCTCCAGCCACCACCAGG  
 CTGAGCAGTGAGGAGAGAAAGTTTCTGCCTGGCCCTGCATCTGGTTCCAGCCACCTGCC  
 CTCCCCTTTTTCGGGACTCTGTATTCCCTCTTGGGCTGACCACAGCTTCTCCCTTTCCCA  
 ACCAATAAAGTAACCACTTTTCAGCCCCAAAACACAAACATACACCACCTTCTCACCCCTT  
 CCCACACCACCCATTCTCCCACTATTCCCACTCCCCTTTCAATCCTAACACCACAAAACAA  
 AAAAACCCTCCTTTAATTCGCGGGCCGGGCTTAACGTTTTTCCCGACACAACCCCGGGG  
 GGGTTCCTTGGGCCCCCTCCACGGGCTTTTCGGGCCCTGGGAAGTCCCCTCCAGGCC  
 CCCCTTTGGCTAAAAAAAAGGGCCTTTTGGCGCAAGGGGCCCTTTAAAATTTTCGGG  
 GGGGGGA



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006103 unedited NCCCTGGTGGTACTTCTTTGGCTGGGNAAGGGANAAGCTGTGGTCAGCCCAANAGGGA TACAGAGTCCCGAAAAAGGGAGGGCAGGTGGGCTGGAACCAGATGCAGGGCCAGGCAGAA ACTTTCTCTCCTCACTGCTCAGCCTGGTGGTGGCTGGAGCTCAGAAATTGGGAGTGACAC AGGACACCTTCCCACAGCCATTGCGGCAGCATTTCATCTGGCCAGGACTGGCTGTCCA CCTGGCACTGGTCCCACAGAGGCCGAGCTGGGAAAGTAAATGTTACCTGGGGCAGG AACCCCTTATCATTGGGCAGAGAGCAGAACGTGGCACATCCCAGCTGCACCATTGA CGTTGTCAGCGCCTTCACTGTCCAGAGCCCTTTGCGTGCAGTTCTGGTCAACCCTGGA TCCCAGGGCTCACGCCATCCTTTTCTGCTCGTGACGCTGTTACTCTGGTATTTTTATATA ATTTGTAGTTTAGTATGACGCCGCTGCTCTCCCCCCCCTACCCCCCCCCCTTTCGTCT TCCCCCCCGCCAGTCCCTTACTTCTCTACACCTCATAGTATTTTTATTCTCCACTGTT ATCCTCTTCTTTTCTTCTCGCGTCGTTATGGGTTTGTGCCTACCCCCGCCCCCCC CACTCCCTCCCACCCCGACGTGGTGTTCCTATTTTCGTTGTCCCTCCGGACCTAATA GTTTTGCCCTTCTTCCAGCCGTTTCGGCGTGGGCCCGCGTGCATGTATAATCCC TCTTGGCCCCGCCAGTTCTGGCCTGCGCTATTTGCCGTGCGCGTGGGCCCGTACC TCTCCCTTCGCCACCCGTGTCGGGCTCGTGTCTGCGCGGCACCATCTGTGCGTAACN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006103
<b>Insert Size:</b>	660 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>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_006103.3</a></u> , <u><a href="#">NP_006094.3</a></u>
<b>RefSeq Size:</b>	570 bp
<b>RefSeq ORF:</b>	375 bp
<b>Locus ID:</b>	10406
<b>UniProt ID:</b>	<u><a href="#">Q14508</a></u>
<b>Cytogenetics:</b>	20q13.12
<b>Domains:</b>	WAP
<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]