

Product datasheet for **RG208491**

HE4 (WFDC2) (NM_006103) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HE4 (WFDC2) (NM_006103) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HE4
Synonyms: dj461P17.6; EDDM4; HE4; WAP5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208491 representing NM_006103
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTTGTGCGCTAGGCCCGCTAGCCGCCCTCCTCCTCAGCCTGCTGCTGTTCCGGTTACCC
TAGTCTCAGGCACAGGAGCAGAGAAGACTGGCGTGTGCCCGAGCTCCAGGCTGACCAGAAGTGCACGCA
AGAGTGCCTCGGACAGCGAATGCGCCGACAACCTCAAGTGTGCAGCGCGGGCTGTGCCACCTTCTGC
TCTCTGCCAATGATAAGGAGGGTTCTGCCCCAGGTGAACATTAAGTTCCTCCAGCTCGGCCTCTGTC
GGGACCAGTGCAGGTGGACAGCCAGTGTCTGGCCAGATGAAATGCTGCCGAATGGCTGTGGGAAGGT
GTCTGTGCTACTCCAATTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208491 representing NM_006103
Red=Cloning site Green=Tags(s)

MPACRLGPLAAALLL.SLLLFGLVSGTGAETGVCPQLQADQNCTQECVSDSECADNLKCCSAGCATFC
SLPNDKEGSCPQVINFPQLGLCRDQCQVDSQCPGQMKCCRNCGKVCVTPNF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_006103

ORF Size: 372 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006103.4](#)

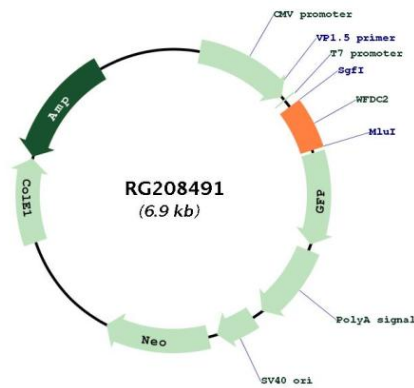
RefSeq Size: 570 bp

RefSeq ORF: 375 bp

Locus ID: 10406
UniProt ID: [Q14508](#)
Cytogenetics: 20q13.12
Domains: WAP
Protein Families: 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]

Product images:



Circular map for RG208491