

## Product datasheet for **RC206035**

### ZMPSTE24 (NM\_005857) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZMPSTE24 (NM_005857) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZMPSTE24
Synonyms:	FACE-1; FACE1; HGPS; PRO1; STE24; Ste24p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC206035 representing NM\_005857  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCGAGAAGCGTATCTTCGGGGCCGTGC  
 TGCTCTTTTCTGGACAGTGTATCTTTGGGAGACCTTCCTAGCACAGCGGCAGAGAAGGATATATAAAAC  
 AACAACTCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTTGAGAAATCTCGACTCTAT  
 CAACTGGATAAAAGCACTTTCAGCTTCTGGTCAGGACTCTATTAGAGACTGAAGGCACTCTTATTCTTC  
 TCTTTGGAGGAATACCTTATCTCTGGAGACTTTCTGGACGTTCTGTGGTTATGCTGGCTTTGGACCAGA  
 ATATGAGATCACTCAGTCCCTGGTGTCTGCTGTTGGCTACACTTTTCAGTGCATTGGCTGGTTTGCCA  
 TGGAGTCTTTATAACTTTTGTGATAGAAGAAAACATGGCTTCAATCAACAGACTTTGGGGTTCTTCA  
 TGAAGATGCAATCAAGAAATTTGTTGACTCAGTGCATTTTGTGCCTGTGTCTTCACTTCTACTTTA  
 CATTATTAATAATGGGGGTGACTATTTTTTTATTTATGCCTGGCTGTTACATTAGTTGTGTCTCTGGTT  
 CTTGTCACAATCTATGCTGATTATATTGCCCTTTATTTGACAAATTCACACCTTCGCTGAGGGAAAGC  
 TTAAGAAGAAATGAAGTAATGGCAAAGAGTATTGACTTTCCTTTGACGAAGGTGTATGTTGTGGAAGG  
 ATCTAAACGCTCTTCCCACAGCAATGCTTATTTTTATGGCTTCTTCAAGAACAAGCGAATAGTTTTGTTT  
 GACACTCTACTAGAAGAGTACTCTGACTAAACAAGACATCCAGGAGGATTCTGGCATGGAACCCCGCA  
 ATGAGGAAGAAGGGAACAGTGAAGAAATAAAGCTAAAGTTAAAAATAAGAAACAAGGATGTAAAAATGA  
 GGAGGTAAGTCTGCTGACTAGGCCATGAAGTGGGCACTGGAAGTTGGGACATACAGTCAAAAATATCATT  
 ATTAGCCAGATGAATCTTTCTGTGTTTTTTTTTTATTTGCTGTATTAATTGGTCGAAAGGAGCTTTTTG  
 CTGCATTTGGTTTTTATGATAGCCAACCCACTTTATTGGACTATTGATCATCTTCCAGTTATTTTTTTC  
 ACCTTACAATGAGGTTCTTTCTTTTGCCTAACAGTCCTAAGCCGCAGATTTGAGTTTCAAGCTGATGCA  
 TTTGCCAAGAACTTGGGAAGGCTAAAGACTTATATTCTGCTTTAATCAAACCTAACAAAGATAACTGG  
 GATTCCCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCTCCACTGCTAGAGAGACTTCA  
 AGCTTTGAAAACATGAAGCAACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC206035 representing NM\_005857  
 Red=Cloning site Green=Tags(s)

MGMWASLDALWEMPAEKRIFGAVLLFSWTVYLWETFLAQRQRRIYKTTTHVPELGGQIMDSETFEKSRLY  
 QLDKSTFSFWSGLYSETEGLILLFGGIPYLWRLSGRFCGYAGFGPEYEITQSLVFLLLATLFSALAGLP  
 WSLYNTFVIEEKHGFNQTLGFFMKDAIKKFVVTQCILLPVSSLLLYIIKIGGDYFFIYAWLFTLVVSLV  
 LVTIYADYIAPLFDKFTPLPEGKLEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFKNKRIVLF  
 DTLL EEYSVLNKDIQEDSGMEPRNEEEGNSEEIKAKVKNKKQGCKNEEVLAVLGHELGHWKLGHVKNII  
 ISQMNSFLCFFLFAVLIGRKELFAAFGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADA  
 FAKKLGKAKDLYSALIKLNKDNLGFVSDWLF SMWHYSHPLLERLQALKTMKQH

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2817\\_g01.zip](https://cdn.origene.com/chromatograms/mg2817_g01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_005857

**ORF Size:** 1425 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

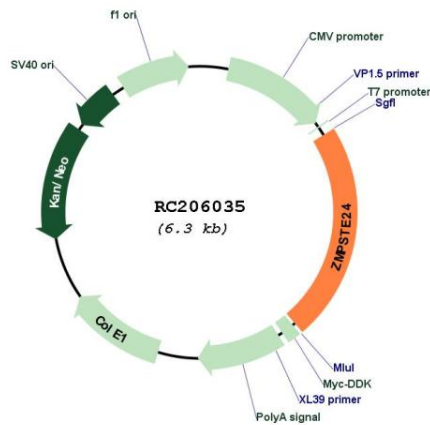
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_005857.5](#)  
**RefSeq Size:** 3154 bp  
**RefSeq ORF:** 1428 bp  
**Locus ID:** 10269  
**UniProt ID:** [O75844](#)  
**Cytogenetics:** 1p34.2  
**Domains:** Peptidase\_M48  
**Protein Families:** Druggable Genome, Protease, Transmembrane  
**MW:** 54.6 kDa

**Gene Summary:** This gene encodes a member of the peptidase M48A family. The encoded protein is a zinc metalloproteinase involved in the two step post-translational proteolytic cleavage of carboxy terminal residues of farnesylated prelamin A to form mature lamin A. Mutations in this gene have been associated with mandibuloacral dysplasia and restrictive dermopathy. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC206035