

Product datasheet for **SC127925**

ZMPSTE24 (NM_005857) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZMPSTE24 (NM_005857) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005857, the custom clone sequence may differ by one or more nucleotides

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ATGGGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCGAGAAGCGTATCTTCGGGGCCGTGC
TGCTCTTTTCTGGACAGTGTATCTTTGGGAGACCTTCCTAGCACAGCGGCAGAGAAGGATATATAAAAC
AACAACTCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTTGAGAAATCTCGACTCTAT
CAACTGGATAAAAGCACTTTTCAGCTTCTGGTCAGGACTCTATTTCAGAGACTGAAGGCACTTTATTCTTC
TCTTTGGAGGAATACCTTATCTCTGGAGACTTTCTGGACGGTTCTGTGGTTATGCTGGCTTTGGACCAGA
ATATGAGATCACTCAGTCCCTGGTGTCTGCTGTTGGCTACACTTTTCAGTGCATTGACTGGTTTGCCA
TGGAGTCTTTATAAATACTTTTGTGATAGAAGAAAACATGGCTTCAATCAACAGACTTTGGGGTTCTTCA
TGAAAGATGCAATCAAGAAATTTGTTGACTCAGTGTATTTTGTGCCTGTGTCTTCACTTCTACTTTA
CATTATTAATAAATGGGGGTGACTATTTTTTTATTTATGCCTGGCTGTTCCATTAGTTGTGTCTCTGGTT
CTTGTCACAATCTATGCTGATTATATTGCCCTTTATTTGACAAATTCACACCTCTGCCTGAGGGAAAGC
TTAAAGAAGAAATGAAGTAATGGCAAAGAGTATTGACTTTCCTTTGACGAAGGTGTATGTTGTGGAAGG
ATCTAAACGCTCTTCCCACAGCAATGCTTATTTTTATGGCTTCTTCAAGAACAAGCGAATAGTTTGTGTT
GACACTCTACTAGAAGAGTACTCTGTAATAACAAGACATCCAGGAGGATTCTGGCATGGAACCCCGCA
ATGAGGAAGAAGGAACAGTGAAGAAAATAAAGCTAAAGTTAAAAATAAGAAACAAGGATGAAAAATGA
GGAGGTAAGTCTGTAAGGCACTGAACTGGGCACTGGAAGTTGGGACATACAGTCAAAAATATCATT
ATTAGCCAGATGAATCTTCTGTGTTTTTTTTTTATTTGCTGTATTAATTGGTCGAAAGGAGCTTTTTG
CTGCATTTGGTTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCATCTTCCAGTTTATTTTTTC
ACCTTACAATGAGGTTCTTTCTTTTGCCTAACAGTCCTAAGCCGCAGATTTGAGTTTCAAGCTGATGCA
TTTGCCAAGAACTTGGGAAGGCTAAAGACTTATATTCTGCTTAACTCAAACTTAACAAAGATAACTTGG
GATTCCCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCTCCACTGCTAGAGAGACTTCA
AGCTTTGAAAACATGAAGCAACTGA
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Chromatograms:	https://cdn.origene.com/chromatograms/ja2005_c06.zip
Restriction Sites:	NotI-NotI
ACCN:	NM_005857
Insert Size:	2820 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone may be unstable or toxic at high copy number in common E. coli strain. We recommend using a lower copy number E. coli strain, such as CopyCutter strain (http://www.epibio.com/item.asp?ID=435) for transformation and plasmid preparation. Please be aware that the DNA yield could be low. Additional aliquots of this clone can be ordered from OriGene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_005857.2 , NP_005848.2
RefSeq Size:	3165 bp
RefSeq ORF:	3165 bp
Locus ID:	10269
UniProt ID:	O75844
Cytogenetics:	1p34.2
Domains:	Peptidase_M48

Protein Families: Druggable Genome, Protease, Transmembrane

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]