

Product datasheet for **SC125280**

VCP (NM_007126) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VCP (NM_007126) Human Untagged Clone
Tag:	Tag Free
Symbol:	VCP
Synonyms:	CDC48; FTDALS6; p97; TERA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125280 sequence for NM_007126 edited (data generated by NextGen Sequencing)

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ATGGCTTCTGGAGCCGATTCAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAG
AACCGTCCCAATCGGTTAATTGTTGATGAAGCCATCAATGAGGACAACAGTGTGGTGTCC
TTGTCCCAGCCCAAGATGGATGAATTGCAGTTGTTCCGAGGTGACACAGTGTTCGTGAAA
GGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGATGAG
AAGATTCGGATGAATAGAGTTGTTCCGGAATAACCTTCGTGTACGCCTAGGGGATGTCATC
AGCATCCAGCCATGCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCCATGAT
GACACAGTGGAAGGCATTACTGGTAATCTCTTCGAGGTATACCTAAGCCGTACTTCCTG
GAAGCGTATCGACCCATCCGAAAGGAGACATTTTTCTTGTCCGTGGTGGGATGCGTGCT
GTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGACACA
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CAGCTCATCTACATCCCCTTCTGATGAGAAGTCCCCTGTTGCCATCCTCAAGGCTAAC
CTGCGCAAGTCCCAGTTGCCAAGGATGTGGACTTGGAGTTCTGGCTAAAATGACTAAT
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GAATCCATCGAGAGTGAGATTAGGCGGAGAACGAGAGAGGCAGACAAACCCATCAGCCATG
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CGCTTTGCGCGCCGTTCTGTGAGTACAATGACATTCGGAAGTATGAGATGTTTGGCCAG
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GCTGGCCCAAGTCAAGGAGTGGAGGCGGCACAGGTGGCAGTGTATACACAGAAGACAAT
GATGATGACCTGTATGGCTAA
    
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Clone variation with respect to NM_007126.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_007126 unedited</p> <pre>NNGGGTCAGATTTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGTCGCTG CCGCTGCCGCTGCCACTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTCCGCCG ACGCCTCGCTGCCGTTGGGAGGAAGCGAGAGGGAAAGCCGTTGCGGGTTTGTCCGCCGCTG CTCGCCACCCTGGAAGAGCCGAGCCCCGGCCAGTCGGTCGTTGCCACCGCTCGTA GCCGTTACCCGCGGGCCACAGCCGCGCCGGGAGAGGCGCGCCATGGCTTCTGG AGCCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAA TCGGTTAATTGTTGATGAAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCAGCC CAAGATGGATGAATTGCAGTTGTTCCGAGGTGACACAGTGTGCTGAAAGGAAAGAGAG ACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGATGAGAAGATTCGGAT GAATAGAGTTGTTTCGGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCC ATGCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCATTGATGACACAGTGGAA AGGCATTACTGGTAATCTCTTCGAGGTATACCTTAAGCCGTAATCTCTGGAAGCGTATCG ACCCATCCGAAAGGAGACATTNTCTTGTCCGTTGGTGGGATGCGTGCTGTGGAGTTCAA AGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGNTGCTCCGACACAGTATCACTGCG AAGGNGAGCCTATCANACGAGAGATGAAGGANAGTCCTTGATGAANTAGGTATGATGACA TGGNTGGT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_007126 unedited</p> <pre>NGGGCATTGNAGTCGCTTTTCATTTATCGCTTTTGTGTTTGGCAACAGAAAA CCCCCTGTCCANAGTCAGACTGTAGCTGAACTGTTTCAGACTGGAGAATGGAGCAGGCTGT GGGCGCACCCCTGGTCCCTCTCCTGGGCAAGCGCCCCACCCCAAGGAAACAAGTCCAG GCAGGCCAGCTCACTGCACGCTGGCCACCACCTTAGCCATACAGGTATCATCATTGT CTTCTGTGATACACTGCCACCTGTGCCGCTCCACTGCCCTGACTGGGGCCAGTCCAC CCTGGTCCCTGAAGGGAATCTGAAGCTGCCAAAGCCCGACTCTGCTGAAGGTTCTGGG CAAACATCTCATACTTCCGAATGTCATTGTCACTGACAGAACGGCGCGCAAAGCGCATGG CTTCTTCAAAGTATCTCGACGGATCTCAGGCACTGGATCATCTCTTCTACCTCCATGG CTGATGGGTTTGTCTGCCTCTCTCGTTCCTGCCTAATCTCACTCTCGATGGATTCACGGA TGGCCAGCTTGAAGCAGCTGGCAAATCTCTGTCAGGTCAGTCCAGAGAAGCCATTAG TCATTTTAGCCAGGAATCCAAGTCCACATCCTTGGCAACTGGGACTTGGCANGTTAG CCTTGAGGATGGGGCACACGCACTTCTCATCANGAAGTGGGATGTAGATGAGTATCAA GACNGCCAGGTCTGANGATGGCAGGATCAATGATGTGAGGCCCGTTGGTAGCGCCCATGA TGAACACATTTTTTTTTTGTGGACATGCCATCCATTTNCTGTGAGGATCTGGNTTGTGAC TCGTGAGCAGCCCCACCACATCTCAATGTACCCTCACGAGCCTTGGGGCATCGATCCAG CTCATCAAAGATAGCCCAAGGGGAGCCTG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_007126
Insert Size:	3000 bp
OTI Disclaimer:	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).
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_007126.2](#), [NP_009057.1](#)

RefSeq Size: 3198 bp

RefSeq ORF: 2421 bp

Locus ID: 7415

UniProt ID: [P55072](#)

Cytogenetics: 9p13.3

Domains: cdc48_N, AAA, AAA

Gene Summary: This gene encodes a member of the AAA ATPase family of proteins. The encoded protein plays a role in protein degradation, intracellular membrane fusion, DNA repair and replication, regulation of the cell cycle, and activation of the NF-kappa B pathway. This protein forms a homohexameric complex that interacts with a variety of cofactors and extracts ubiquitinated proteins from lipid membranes or protein complexes. Mutations in this gene cause IBMPFD (inclusion body myopathy with paget disease of bone and frontotemporal dementia), ALS (amyotrophic lateral sclerosis) and Charcot-Marie-Tooth disease in human patients. [provided by RefSeq, Aug 2017]