

Product datasheet for **RG211130**

VCP (NM_007126) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VCP (NM_007126) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VCP
Synonyms:	CDC48; FTDALS6; p97; TERA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211130 representing NM_007126
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCTGAGCCGATTCAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCCTCCCA
 ATCGGTTAATTGTTGATGAAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCCAGCCCAAGATGGA
 TGAATTGCAGTTGTTCCGAGGTGACACAGTGTGCTGAAAGGAAAAGAAGAGACGAGAAGCTGTTGCATC
 GTCCTTCTGATGATACTTGTCTGATGAGAAGATTTCGGATGAATAGAGTTGTTCCGGAATAACCTTCGTG
 TACGCCTAGGGGATGTCATCAGCATCCAGCCATGCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCT
 GCCATTGATGACACAGTGAAGGCATTACTGGTAATCTCTTCGAGGTATACCTAAGCCGTACTTCCTG
 GAAGCGTATCGACCCATCCGAAAGGAGACATTTTCTGTCCGTGGTGGGATGCGTGTGTGGAGTTCA
 AAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGACACAGTGTCCACTCGAAGGGGA
 GCCTATCAAACGAGAGGATGAGGAAGAGTCTTGAATGAAGTAGGTATGATGACATTGGTGGCTGCAGG
 AAGCAGCTAGCTCAGATAAAGGAGATGGTGAACCTGCCCTGAGACATCTGCCCTCTTAAAGGCAATTG
 GTGTGAAGCCTCCTAGAGGAATCCTGCTTACGGACCTCCTGGAACAGGAAAGACCTGATTGCTCGAGC
 TGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCTGAGATCATGAGCAAATGGCTGGT
 GAGTCTGAGAGCAACCTTCGTAAGCCTTTGAGGAGGCTGAGAAGATGCTCCTGCCATCATCTTCATTG
 ATGAGCTAGATGCCATCGCTCCAAAAGAGAGAAAACCTCATGGCAGGTGGAGCGGCGCATTGTATCACA
 GTTGTGACCCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCC
 AACAGCATTGACCAGCTCTACGGCGATTTGGTGGCTTACAGGGAGGTAGATATTGGAATTCCTGATG
 CTACAGGACCTTAGAGATTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGA
 ACAGGTAGCCAATGAGACTCACGGGCATGTGGTGTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTG
 CAAGCCATCCGCAAGAAGATGGATCTCATTGACCTAGAGGATGAGACCATTGATGCCGAGGTCATGAACT
 CTCTAGCAGTTACTATGGATGACTTCCGGTGGGCCTTGAGCCAGAGTAACCCATCAGCACTGCGGGAAC
 CGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACATCGGGGGCCTAGAGGATGTCAAACGTGAGCTACAG
 GAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCCTGAAGTTGGCATGACACCTCCAAGGGAG
 TTCTGTTCTATGGACCTCCTGGCTGTGGAAAACCTTTGTTGGCCAAAGCCATTGCTAATGAATGCCAGGC
 CAACTTCATCTCCATCAAGGGTCTGAGCTGCTCACCATGTGGTTGGGGAGTCTGAGGCCAATGTCAGA
 GAAATCTTTGACAAGGCCCGCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCTGGATTGCGATTGCCA
 AGGCTCGTGGAGGTAACATTGGAGATGGTGGTGGGCTGCTGACCGAGTCATCAACCAGATCCTGACAGA
 AATGGATGGCATGTCCACAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCTGACATCATTGAT
 CCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCCTTCTGATGAGAAGTCCCGTG
 TTGCCATCCTCAAGGCTAACCTGCGCAAGTCCCGAGTTGCCAAGGATGTGGACTTGGAGTTCTGGCTAA
 AATGACTAATGGCTTCTCTGGAGCTGACCTGACAGAGATTTGCCAGCGTCTTGAAGCTGGCCATCCGT
 GAATCCATCGAGAGTGAGATTAGGCGAGAACGAGAGAGGCAGACAACCCATCAGCCATGGAGGTAGAAG
 AGGATGATCCAGTGCCTGAGATCCGTGAGATCACTTTGAAGAAGCCATGCGCTTTGCCGCGCTTCTGT
 CAGTGACAATGACATTCGGAAGTATGAGATGTTTGGCCAGACCTTCAGCAGAGTCGGGGCTTTGGCAGC
 TTCAGATTCCTTCAGGGAACCGGGTGGAGCTGGCCCCAGTCAGGCGAGTGGAGCGGCACAGGTGGCA
 GTGTATACACAGAAGACAATGATGATGACCTGTATGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211130 representing NM_007126
Red=Cloning site Green=Tags(s)

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVSVLSQPKMDELQLFRGDTVLLKGGKRREAVCI
VLSDDTCSDEKIRMNRVVRNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFL
EAYRPIRKGDIFLVRGGMRAVEFKVVETDPSYCVAPDTVIHCEGEPIKREDEEESLNEVGYYDDIGGCR
KQLAQIKEMVELPLRHPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAG
ESESNLKAFEEAEKNAPAIIFIDELDAIAPKREKTHGEVERRIVSPLLMDGLKQRAHVIVMAATNRP
NSIDPALRRFGRFDREVDIGIPDATGRLEILQIHTKNMMLADDVDLEQVANETHGHVADLAALCSEAAL
QAIRKKMDLIDLEDETIDAEVMNSLAVTMDDFRWALSQSNPSALRETVVEVPQVTWEDIGGLEDVKRELQ
ELVQYPVEHPDKFLKFGMTPSKGVLFYGGPGCGKTLAKAIANECQANFISIKGPELLTMWFGESEANVR
EIFDKARQAAPCVLFFDELDSIAKARGGNI GDGGGAADRVINQILTEMDGMSTKKNVFIIGATNRPDIID
PAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKVDVLEFLAKMTNGFSGADLTEICQRACKLAIR
ESIESEIRRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDNDIRKYEMFAQTLQQSRGFGS
FRFPSTGQGGAGPSQGGGGTGGSVYTEDNDDDLYG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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_007126.5](#)

RefSeq Size: 3198 bp

RefSeq ORF: 2421 bp

Locus ID: 7415

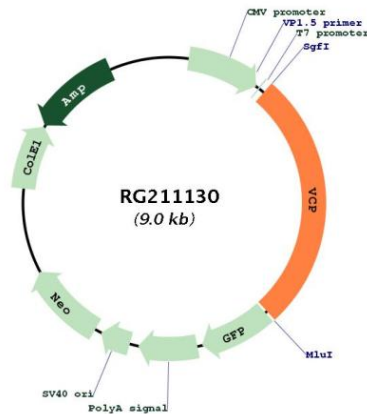
UniProt ID: [P55072](#)

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]

Product images:



Circular map for RG211130