

Product datasheet for **RR203691**

Vcl (NM_001107248) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Vcl (NM_001107248) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Vcl
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR203691 representing NM_001107248
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGTGTTCACACGCGCAGCATCGAGAGCATCCTGGAGCCGGTGGCGCAGCAGATCTCTCACCTGG
 TGATTATGCACGAGGAGGGCGAGGTGGACGGCAAAGCCATTCTGACCTACCCGCGCCCGTGGCCGCTGT
 GCAGGCGGCCGTGACCAACCTCGTCCGGTTGGGAAAGAGACCGTTCAGACCAGTGGAGTACAGATTTTG
 AAGAGAGATATGCCGCCAGCATTTATTAAGGTCGAGAATGCTTGACGAAGCTTGTTCAGGCAGCTCAGA
 TGCTTCAGTCAGACCCATACTCTGTTCTCGCGGGATTACCTCATCGACGGCTCCAGGGGAATCTCTC
 TGGAAAGCTGACCTCTGCTTACCTTTGATGAGGCTGAGGTTGAAAAATTATAAGAGTTTCAAAGGG
 ATTTTGAATACCTCACAGTGGCAGAGGTAGTGGAGACTATGGAAGACTTGGTCACTTACACAAAGAACC
 TTGGGCCCGGAATGACGAAGATGGCCAAAATGATCGATGAGAGACAGCAGGAGTTGACGCACCAGGAACA
 CCGTGTGATGCTGGTGAACCTCAATGAACACTGTCAAAGAGCTGCTTCTGTTCTCATTTCAGCTATGAAG
 ATTTTGTACAACCAAAAACCTCAAAAACCAAGGAATAGAAGAAGCTCTGAAAAATCGAAATTTACTG
 TAGGAAAGATGAGTGCTGAGATTAACGAGATCATTCTGTGTTACAACCTACCTCTGGGATGAGGACGC
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 AAAGGTTGGCTCCGTGACCCCAACGCTTCCCCAGGGGACGCCGGTGGAGCAGGCCATCAGGAGATCTTGG
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 TCCCAATGGTGGACCTGAAGGAGAAGAACAGATCCGAGGGGCTTTGGCTGAAGCTCGGAAGATTGCTGAG
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 TCGCCAAGATCTTCTCGCCAAGTGTGACCGTGTAGACCAGCTAGCAGCTCAGCTGGCTGACCTGGCTGCC



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CGAGGGGAGGGGAGAGTCTCAGGCGAGAGCGCTTGCTTCTCAGCTTCAGGACTCCTTAAAGGATCTTA
 AAACCCAGATGCAGGAAGCTATGACTCAAGAGGTGCCGACGTTTTTCAGCGATACTACAACCTCCCATCAA
 GCTGTTGGCAGTGGCGGCCACTGCTCCTCTGATGCGCCCAATAGGGAAGAGGTATTTGACGAGAGAGCA
 GCCAACTTTAAAACCATTCAGGAAGGCTTGGGGCCACGGCAGAGAAGGCAGCTGCTGTTGGTGTGCCA
 AATAATCGACAGTGAAGGCATTAGGCATCCGTGAAGACAGCCCGAGAAGCTCACTCCCCAGGTGATCTC
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 GATGCTGGTCTGAGCAACAGTATTGCTCGTGGGCAACCGGATTCTGCTGGTTGCTAAGAGGGAG
 GTAGAGAAGTCTGAGGATCCGAAGTTCAGAGGCTGTGAAAGCTGCCTCTGATGAACTGAGCAAAAACA
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 GCAGAAAGCCGGGAGGTGATTAACAGCCGATGATGATGGCCGACAGGCTCCACGATGAAGCTCGG
 AAGTGGTCTAGCAAGGGCAATGACATCATCGCAGCAGCCAAGCGCATGGCTCTGCTGATGGCGGAGATG
 CTCGGCTGGTAAGAGGGGCGAGTGGTACCAAGCGGCACTTATTCAAGTGTCCAAGGATATCGCCAAGGC
 CTCTGATGAGGTGACGAGGTTGGCCAAGGAGGTTGCCAAGCAGTGCACAGATAAGCGGATTAAGAACCAAT
 CTCTTACAGGCTGTGAGCGAATCCCAACTATAAGCACCAGCTCAAAATCCTGTCCACAGTGAAGGCCA
 CCATGTGGGCCGGACCAACATCAGTGCAGGAGTCTGAGCAGGCCACAGAGATGCTGGTTCATAATGC
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 GACGCCGATTTACTCTGCGCTGGTTCAGAAAGACTCCCTGGTACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATTAAGTTTAA

Protein Sequence:

>RR203691 representing NM_001107248
 Red=Cloning site Green=Tags(s)

MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTEDQIL
 KRDMPPAFIKVENACTKLQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIIRVCKG
 ILEYLTVAEVETMEDLVYTKNLGPGMTKMAKIDRQQLTHQHRVMLVNSMNTVKELLPVLISAMK
 IFVTTKNSKNQIEEALKNRNFTVGKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALASIDSKLNQA
 KGWLRDPNASPGDAGEQAIRQILDEAGVVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAM
 QKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIKIDAAQNLADPNGGPEGEEQIRGALAEARKIAE
 LCDDPKERDDILRSLGEIAALTSKLGDLRRQKGDSPEARALAKQVATALQNLQTKNRAVANSRPAKAA
 VHLEKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMPYRQDLLAKCDRVDQLAAQLADLAA
 RGEESPQARALASQLQDSLKDLKTQMQEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVFDERA
 ANFENHSRGLGATAEKAAVGAANKSTVEGIQASVKTARELTPQVISAARILLRNPQNAAAYEHFETMKN
 QWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLKCKVAMANIQPMLVAGATSIARRANRILLVAKRE
 VENSEDPKFREAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFSDSGYRILGAVAKVREAFQPQEP
 DFPPPPDLEQLRLTDELAPPKPLPEGEVPPRPPPEEKDEEFPEQKAGEVINQPMMAARQLHDEAR
 KWSSKNDIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTN
 LLQVCERIPTISTQLKILSTVKATMLGRNINISDEESEQATEMLVHNAQNLMQSVKETVREAEAAASIKIRT
 DAGFTLRWVRKTPWYQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<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:	<u>NM_001107248.1, NP_001100718.1</u>
RefSeq Size:	5270 bp
RefSeq ORF:	3201 bp
Locus ID:	305679
UniProt ID:	<u>P85972</u>
Cytogenetics:	15p16
MW:	116.6 kDa
Gene Summary:	Actin filament (F-actin)-binding protein involved in cell-matrix adhesion and cell-cell adhesion. Regulates cell-surface E-cadherin expression and potentiates mechanosensing by the E-cadherin complex. May also play important roles in cell morphology and locomotion. [UniProtKB/Swiss-Prot Function]