

Product datasheet for **MG208080**

Ccdc132 (BC002304) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc132 (BC002304) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccdc132
Synonyms:	BLM, mKIAA1861
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208080 representing BC002304
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTTAGAGAATGAGACATGGGAGCTTTGCCCTGTTAAGTCAAATTTAGCATCTTGACGTTTCATG
 AGTTTAAATTCCTGGAACAGTCTCGCTCCCATCAGTTTCACCTAGTAAGCAGCCATCAGCAACTTCTTC
 AAAGCCTATGACTTTGTTTGAGCAGTACTGCAGTGGTGGGAATCCATTTGAAATACAAGCTGACCACAAA
 GATGAAGAACTGAAGATGTCTTAGCCTCTAATGGGTATGAGTCTGATGAGCAAGAGAAGAGCGCCTATC
 AGGACTATGACAGTGACAGCGACGTCCCTGAGGAGCTGAAGCGGGATTACGTGGACGAGCAGACCGGCGA
 CGTGCCCGTGAAGAGTGTTCCTGAGAGACCCTGAAGAGCAGGAAGAAGTCGGATTACAGTCTAAACAAA
 GTGAATGCACCCATCTTAACAAACACAACACTGAATGTAATAAGGCTTGTGGAAAGTACATGCAGATGA
 TGAACATCCTTAAGCCAATCGCCTTTGATGTGATCCATTTTCATGTCTCAGCTCTTTGACTATTACTTGA
 TGCCATATATACCTTTTTTGGTGGGAATGATTCATTGGAATCAACAGGACTTGGCCTTAGTAGTAGCAGA
 CTAAAAACAACCTCTAACAGAATTCAAGAAAGCCTTATTGACCTGGAGGGCTCAGCTGATCCAACCTGCCA
 CTCTCACAGCAGCCGAGGAAAGAAAGGAGAAGGTACCCAGCCACACCTCAATCAGCTAGTGATTTTGAC
 ATCTGGGGATACATTGTATGGGTTGGCAGAGAGAGTGGTAGCCACAGAATCCTTAGTGTTCTTGGCTGAG
 CAGTTTGAGTTTCTTCAGCCACATTTGGATGCTGTGATGCCTGCAGTCAAAAAGCCCTTCTGCAGCAGT
 TTTACTCCCAGACAGTCTCAACTGCCAGTGAAGTGCAGAGCCATTTACTGGATTGTGGCTGGTAAAGC
 TATTGATTATGAACAGATGCTTCTCCTAATGATGAATGTGAAGTGGGATGTCAAAGAAATCATGTACAG
 CACAACATCTATGTAGATGCATTGCTGAAGGAATTTGAGCAGTTTAACAAGCGGTTAAATGAAGTTTCTA
 AGAGAGTTCGGATACCTCTGCCTGTATCAATATACTTTGGGAGCATTGTATACGATTAGCTAACAGAAC
 TATTGTGGAAGGATACGCCAATGTCAAGAAATGCAGTAATGAGGGCGTGCCTTGATGCAATTGGATTTT
 CAACAGTTTTTAATGAACTCGAAAACTAACTGACATTAGACCTATTCCTGATAAAGAGTTTGTGGAAA
 CGTATATCAAAGCCTACTACCTAACTGAGAATGACATGGAGCGTTGGATCAAAGAGCACAGGGAATACTC
 AACGAAGCAGTTGACCAACCTGGTGAATGTTTGCTAGGATCTCATATCAATAAGAAAGCAAGACAGAAG
 CTCCTAGCAGCTATAGATGAGATAGACAGGCCTAAAAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

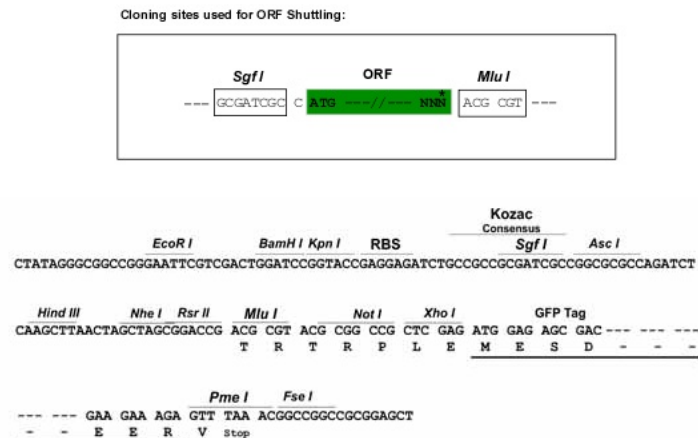
>MG208080 representing BC002304
 Red=Cloning site Green=Tags(s)

MFLNETWELCPVKSNSILQLHEFKFLEQSRSPSVSPSKQPSATSSKPMTLFEQYCSGGNPFEIQADHK
 DEETEDVLASNGYESDEQEKSAYQDYSDSDVPEELKRDYVDEQTDGDPVKSVSRETLSRKKSDYSLNK
 VNAPILTNTTLNVIRLVGKYMQMMNLIKPIAFDVIHFMSQLFDYYLYAIYTFGRNDSLESTGLGLSSSR
 LKTTLNRIQESLIDLEGSADPTATLTAAEERKEKVPSPHLNQLVILTSGDTLYGLAERVVATESLVFLAE
 QFEFLQPHLDVMPAVKKPFLQQFYSQTVSTASELRKPIYWIWVAGKAIDYEQMLLLMMNVKWDVKEIMSQ
 HNIYVDALLKEFEQFNKRLNEVSKRVRIPLPVSNILWEHCIRLANRTIVEGYANVKKCSNEGRALMQLDF
 QQFLMKLEKLTDIRIPDKEFVETIKAYYL TENDMERWIKHEHYSTKQLTNLVNVCLGSHINKKARQK
 LLAAIDEIDRPKR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC002304

ORF Size: 1509 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC002304](#), [AAH02304](#)

RefSeq Size: 2124 bp

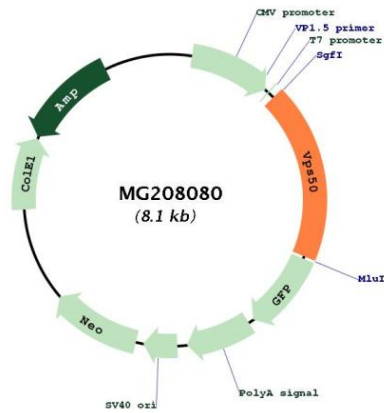
RefSeq ORF: 1511 bp

Locus ID: 73288

Cytogenetics: 6 A1

Gene Summary: Acts as component of the EARP complex that is involved in endocytic recycling. The EARP complex associates with Rab4-positive endosomes and promotes recycling of internalized transferrin receptor (TFRC) to the plasma membrane. Within the EARP complex, required to tether the complex to recycling endosomes. Not involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208080