

Product datasheet for **MG211331**

Vps50 (NM_024260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps50 (NM_024260) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vps50
Synonyms:	1700034M03Rik; 8430415E05Rik; BLM; C87205; Ccdc132; mKIAA1861
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG211331 representing NM_024260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAAAAAATCAAATCTCTCATGACCCGGCAGGGTCTGAAGAGCCCTCCGGAGAGCCTCAATGATCTTG
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 TCAAGCTGAGCAAGAGTTGATTAATAGCATTGAACAAGTCTATTTTTCTGCGGATCCATTTGATATTGTT
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 AGCAACAACAATCTGCAGTCTCTAAAAAGTGGCAGATTTGATTCTTGAAAAGCAGCCTGCTTATGTAAA
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 AATGAGGAAACAGCTGCAGCTGCTGAAGGAAGCAATGTGATGAGTACTGAGGAGGCCACTTTTGACCGTG
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 CAGAATTAAGAAAGCCTTATTGACCTGGAGGGCTCAGCTGATCCAACCTGCCACTCTCACAGCAGCCGAG
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 TACCTAACTGAGAATGACATGGAGCGTTGGATCAAAGAGCACAGGGAATACTCAACGAAGCAGTTGACCA
 ACCTGGTGAATGTTTGCCTAGGATCTCATATCAATAAGAAAGCAAGACAGAAGCTCTAGCAGCTATAGA
 TGAGATAGACAGGCTAAAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211331 representing NM_024260
 Red=Cloning site Green=Tags(s)

MQKIKSLMTRQGLKSPPELNDLGAFESLRVPGKEEFRELREQSPDQAEQELINSIEQVYFSADPFDIV
 KYELEKLPVNLQLEEEYRDKLKQQSAVSKKVADLILEKQPAYVKELERVTSLQTGLQAAVICTNGR
 RHLNIAKEGFTQASLGLLANQRKRQLLIGLLKSLRTIKTLQRTDIRLSEMLEEEDYPGAIQLCLECQKAA
 STFKHYSICISELNSKLQDTLEQIEEQLDVALSKICKNFDINHYTKVQQAAYRLLGKTQTAMDQLMHFTQA
 IHNTVFQVVLGYVELCAGNTDTKFQKLQYKDLCTHVTPDSYIPCLADLCKALWEVMLSYYRTMEWHEKHD
 NEETAAAAEGSNVMSTEEATFDRGYVKKKLEHGLTRIWQDVQLKVKTYLLGTDLSIFKYDDFIFVLDIVS
 RLMQVGEFEGSKSEVLQESIRKQSVNYFKNHHRIRLDELRFLENETWELCPVKS NFSILQHEFKFLE
 QSRSPSVSPKQPSATSSKPVTLFEQYCSGNPFEIQADHKDEETEDVLSNGYESDEQEKSAYQDYDSD
 SDVPEELKRDYVDEQTDGDPVKSVSRETLSRKKSDYSLNKVNAPILTNTLNVIRLVGKYMOMMNLKP
 IAFDVIHFMSQLFDYYLYAIYTFGRNDSLESTGLGLSSRLKTLNRIQESLIDLEGSADPTATLTAAE
 ERKEKVPSPHLNQLVILTSGDTLYGLAERVVATESLVFLAEQFEFLQPHLDAVMPAVKKPFLQQFYSTV
 STASELRKPIYWIYAGKAIDYEQMLLLMMNVKWDVKEIMSQHNIYVDALLKEFEQFNKRLNEVSKRVRIP
 LPVSNILWEHCIRLANRTIVEGYANVKKCSNEGRALMQLDFQQFLMKLEKLTDIRIPDKEFVETIYKAY
 YLTENDMERWIKEHREYSTKQLTNLVNVLGSHINKKARQKLLAAIDEIDRPKR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

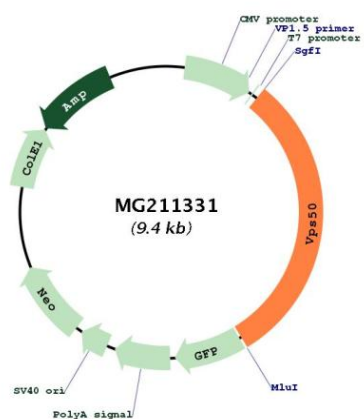


ACCN: NM_024260

ORF Size: 2892 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:	<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_024260.5 , NP_077222.4
RefSeq Size:	3780 bp
RefSeq ORF:	2895 bp
Locus ID:	73288
UniProt ID:	Q8CI71
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 MG211331