

Product datasheet for **RC204547**

GI24 (C10orf54) (NM_022153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GI24 (C10orf54) (NM_022153) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VSIR
Synonyms:	B7-H5; B7H5; C10orf54; DD1alpha; Dies1; GI24; PD-1H; PP2135; SISP1; VISTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204547 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGTCCCCACGGCCCTGGAGGCCGGCAGCTGGCGCTGGGGATCCCTGCTCTTCGCTCTTTCCTGG
CTGCGTCCCTAGGTCCGGTGGCAGCCTTCAAGGTGCACGCCGATTCCCTGTATGTCTGTCCCGAGGG
GCAGAACGTCACCCTCACCTGCAGGCTCTGGGCCCTGTGGACAAAGGGCAGATGTGACCTTCTACAAG
ACGTGGTACCGCAGCTCGAGGGCGAGGTGCAGACCTGCTCAGAGCGCCGCCCATCCGCAACCTCACGT
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CGGGCTGGAGTCGGCCTCCGACCACCATGGCAACTTCTCCATCACCATGCGCAACCTGACCTGCTGGAT
AGCGGCCCTCTACTGCTGCCTGGTGGTGGAGATCAGGCACCACCACTCGGAGCACAGGGTCCATGGTGCCA
TGGAGCTGCAGGTGCAGACAGGCAAAGATGCACCATCCAAGTGTGTGGTGTACCCATCCTCCTCCAGGA
GAGTGAAAACATCACGGCTGCAGCCCTGGCTACGGGTGCCTGCATCGTAGGAATCCTCTGCCTCCCCCTC
ATCCTGCTCCTGGTCTACAAGCAAAGGCAGGCAGCCTCCAACCGCGTGCCAGGAGCTGGTGCGGATGG
ACAGCAACATTCAAGGGATTGAAAACCCCGGCTTTGAAGCCTCACCACCTGCCAGGGGATACCCGAGGC
CAAAGTCAGGCACCCCTGTCTATGTGGCCAGCGGCAGCCTTCTGAGTCTGGCGGCATCTGCTTTCCG
GAGCCCAGCACCCCTGTCTCCTCAGGCCCGGAGACGCTTCTTCCATCCCTGGACCCTGTCCCTG
ACTCTCCAAACTTTGAGGTCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC204547 protein sequence
Red=Cloning site Green=Tags(s)

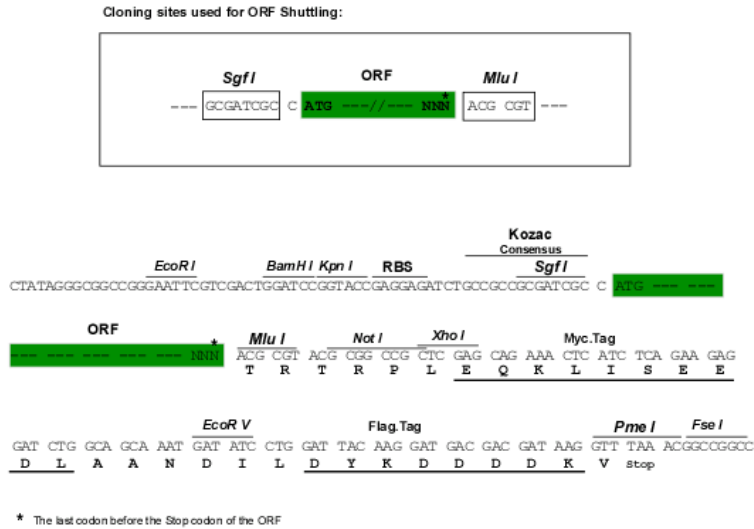
MGVPTALEAGSWRWGSLLFALFLAASLGPVAAFVATPYSLYVCPGQNVTLTCRLLGPVDKGDVTFYK
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 SGLYCCLVVEIRHHHSEHRVHGAMELQVQTGKDAPSNCVVYPSSSQESENITAAALATGACIVGILCLPL
 ILLL VYKQRQAASNRAQELVRMDSNIQGIENPGFEASPPAQGIPEAKVRHPLSYVAQRQPSESGRHLLS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

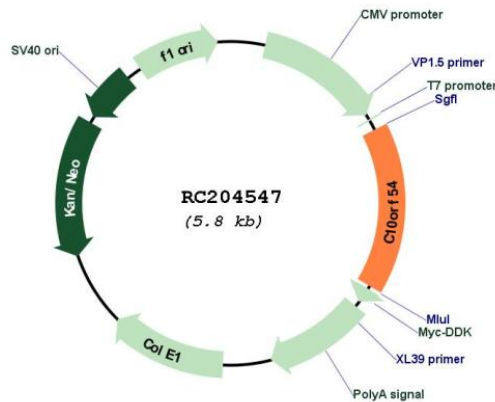
Chromatograms: https://cdn.origene.com/chromatograms/mk6305_g07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

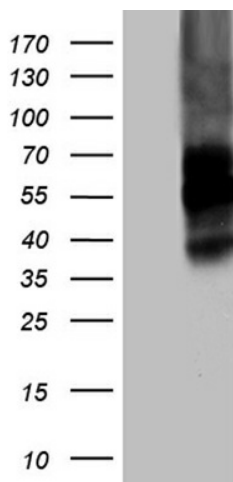


Plasmid Map:

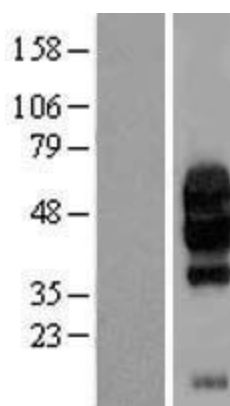


ACCN: NM_022153

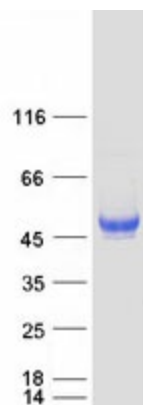
ORF Size:	933 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_022153.1 , NP_071436.1
RefSeq Size:	4774 bp
RefSeq ORF:	936 bp
Locus ID:	64115
UniProt ID:	Q9H7M9
Cytogenetics:	10q22.1
Protein Families:	Transmembrane
MW:	33.9 kDa
Gene Summary:	Immunoregulatory receptor which inhibits the T-cell response (PubMed:24691993). May promote differentiation of embryonic stem cells, by inhibiting BMP4 signaling (By similarity). May stimulate MMP14-mediated MMP2 activation (PubMed:20666777).[UniProtKB/Swiss-Prot Function]

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY C10orf54 (Cat# RC204547, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-C10orf54 antibody (Cat# [TA812257]). Positive lysates [LY411741] (100ug) and [LC411741] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411741]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204547 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VSIR protein (Cat# [TP304547]). The protein was produced from HEK293T cells transfected with VSIR cDNA clone (Cat# RC204547) using MegaTran 2.0 (Cat# [TT210002]).