

Product datasheet for MC217903

Vsir (NM_001159572) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vsir (NM_001159572) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vsir
Synonyms:	4632428N05Rik; Dies1; PD-1H; VISTA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC217903 ORF sequence Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGGTGTCCCGCGGTCCAGAGGCCAGCAGCCCGCGTGGGAACCCTGCTCCTTGCTATTTTCCTGG
CTGCATCCAGAGGTCTGGTAGCAGCCTCAAGGTCACCACTCCATATTCTCTATGTGTGTCCCGAGGG
ACAGAATGCCACCCTCACCTGCAGGATTCTGGGCCCGTGTCAAAGGGCAGATGTGACCATCTACAAG
ACGTGGTACCTCAGCTCAGGAGCGAGGTCCAGATGTGCAAGAACACCGGCCCATCGCAACTTCACAT
TGACGACCTTCAGCACCGGAAGCCACCTGAAAGCCAACGCCAGCCATGACCAGCCCCAGAAGCATGG
GCTAGAGCTAGCTTCTGACCACCACGGTAACTTCTATCACCTGCGCAATGTGACCCCAAGGGACAGC
GGCCTCTACTGCTGTCTAGTGATAGAATTAACCAACCAACCAAGCAACCGTTCTACGGGTCCATGG
AGCTACAGGTACAGGCAGGCAAAGGCTCGGGTCCACATGCATGGCGTCTAATGAGCAGGACAGTGACAG
CATCACGGCTGCGGCCCTGGCCACCGCGCCTGCATCGTGGGAATCCTCTGCCTCCCCCTTATCTGCTG
CTGGTCTATAAGCAGAGACAGGTGGCCTCTCACCGCCGTGCCAGGAGTTGGTGAGGATGGACAGCAACA
CCAAGGAATCGAAAACCCAGGCTTCGAGACCACTCCACCCTCCAGGGGATGCCTGAGGCCAAGACCAG
GCCGCCACTGTCTATGTGGCCACGCGCAACCTTCGGAGTCAGGACGGTACCTGCTCTGACCCACAGC
ACACCTCTGTCGCTCCAGGCCCTGGGACGTCTTTTCCCATCCCTAGATCCAGTCCCTGACTCCCCTA
ACTCTGAAGCCATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001159572
Insert Size:	927 bp



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OTI Disclaimer: 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.

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](#)

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.

RefSeq: [NM_001159572.1](#), [NP_001153044.1](#)

RefSeq Size: 4843 bp

RefSeq ORF: 927 bp

Locus ID: 74048

UniProt ID: [Q9D659](#)

Cytogenetics: 10 B4

Gene Summary: Immunoregulatory receptor which inhibits the T-cell response (PubMed:21383057, PubMed:24743150, PubMed:25267631). May promote differentiation of embryonic stem cells, by inhibiting BMP4 signaling (PubMed:20042595). May stimulate MMP14-mediated MMP2 activation (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate splice site in the coding region compared to variant 1. The resulting isoform (2) is shorter but has the same N- and C-termini compared to isoform 1.