

Product datasheet for **RC213951**

ERVWE1 (ERVW-1) (NM_014590) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERVWE1 (ERVW-1) (NM_014590) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERVWE1
Synonyms:	ENV; ENVW; ERVWE1; HERV-7q; HERV-W-ENV; HERV7Q; HERVW; HERVWENV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213951 representing NM_014590
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTCCCTTATCATATTTTCTCTTTACTGTTCTTTTACCCTCTTTCACTCTCACTGCACCCCTC
 CATGCCGCTGTATGACCAGTAGCTCCCCTTACCAAGAGTTTCTATGGAGAATGCAGCGTCCCGGAAATAT
 TGATGCCCATCGTATAGGAGTCTTTCTAAGGGAACCCACCTTCACTGCCACACCCATATGCCCCGC
 AACTGCTACTCACTCTGCCACTCTTGCATGCATGCAAATACTCATTATTGGACAGGAAAAATGATTAATC
 CTAGTTGTCTGGAGGACTTGGAGTCACTGTCTGTTGGACTTACTTACCCAACTGGTATGTCTGATGG
 GGGTGGAGTTCAAGATCAGGCAAGAAAAACATGTAAGAAGTAATCTCCAACCTCACCCGGGTACAT
 GGCACCTAGCCCTACAAAGGACTAGATCTCTCAAACCTACATGAAACCCTCCGTACCCATACTCGCC
 TGGTAAGCCTATTTAATACCACCCTCACTGGGCTCCATGAGGTCTCGGCCAAAACCTACTAAGTGTG
 GATATGCCTCCCCTGAACTTCAAGCCATATGTTTCAATCCCTGTACCTGAACAATGGAACAACCTCAGC
 ACAGAAATAAACACCACTTCCGTTTTAGTAGGACCTCTTGTTCGAATCTGGAAATAACCCATACCTCAA
 ACCTCACCTGTGTAATAATTTAGCAATACTACATACACAACCAACTCCCAATGCATCAGGTGGTAACTCC
 TCCACACAAATAGTCTGCCTACCCTCAGGAATATTTTTGTCTGTGGTACCTCAGCCTATCGTTGTTTG
 AATGGCTCTCAGAATCTATGTGCTTCTCTCATTCTTAGTGCCCTATGACCATCTACACTGAACAAG
 ATTTATACAGTTATGTCATATCTAAGCCCCGCAACAAAAGAGTACCCATTCTTCTTTTGTATAGGAGC
 AGGAGTGTAGGTGCACTAGGTACTGGCATTGGCGGTATCACACCTCTACTCAGTTCTACTACAACTA
 TCTCAAGAACAATGGGACATGGAACGGGTCGCCACTCCCTGGTCACTTGAAGATCAACTTAAC
 CCTCAGCAGCAGTAGTCCCTTCAAATCGAAGACTTTAGACTTGCTAACCGCTGAAAGAGGGGAACCTG
 TTTATTTTAGGGGAAGAAATGCTGTTATTATGTTAATCAATCCGGAATCGTCACTGAGAAAAGTTAAAGAA
 ATTCGAGATCGAATACAACGTAGAGCAGAGGAGCTTCGAAACACTGGACCCTGGGGCTCCTCAGCCAAT
 GGATGCCCTGGATTCTCCCTTCTTAGGACCTCTAGCAGCTATAATATTGCTACTCCTCTTTGGACCCTG
 TATCTTTAACCTCCTGTAACTTTGTCTCTTCCAGAATCGAAGCTGTAACACTACAAATGGAGCCCAAG
 ATGCAGTCCAAGACTAAGATCTACCGCAGACCCCTGGACCAGCCTGCTAGCCACGATCTGATGTTAATG
 ACATCAAAGGCACCCCTCCTGAGGAAATCTCAGCTGCACAACCTCTACTACGCCCAATTCAGCAGGAAG
 CAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213951 representing NM_014590
 Red=Cloning site Green=Tags(s)

MALPYHIFLFTVLLPSFTLTAPPPCRCMTSSSPYQEFLLWRMQRPGNIDAPSYRSLSKGTPPTFAHTHMPR
 NCYHSATLCMHANTHYWTGKMINPSCPGLGVTVCWYFTQTGMSDGGGVQDQAREKHVKEVISQLTRVH
 GTSSPYKGLDLKSLHETLRHTRLVSLFNNTLTGLHEVSAQNPTNCWICLPLNFRPYVSIIPVEQWNNFS
 TEINTTSLVVGPLVSNLEIHTSNLTCVKFSNTTYTNSQCIRWVTPPTQIVCLPSGIFVCGTSAYRCL
 NGSSSESMCFLSFLVPPMTIYTEQDLYSYVISKPRNKRVPILPFVIGAGVLGALGTGIGGITTSTQFYKLL
 SQELNGDMERVADSLVTLQDQLNSLAAVLQNRALDLLTAERGGTCLFLGEECCYYVNSGIVTEKVKKE
 IRDRIQRRAEELRNTGPWGLLSQWMPWILPFLGPLAAIILLLLFGPCIFNLLVNFVSSRIEAVKLQMEPK
 MQSKTKIYRRPLDRPASPRSDVNDIKGTPPEEISAAQPLLRPNSAGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6497_c10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_014590

ORF Size: 1614 bp

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](#)

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).

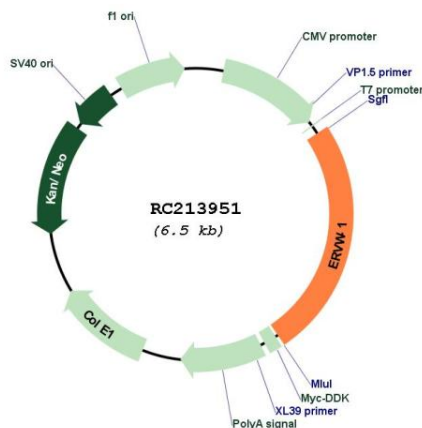
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

RefSeq: [NM_014590.3](#), [NP_055405.3](#)

RefSeq Size: 3044 bp
RefSeq ORF: 1617 bp
Locus ID: 30816
UniProt ID: [Q9UQF0](#)
Cytogenetics: 7q21.2
Domains: ENV_polyprotein
Protein Families: Transmembrane
MW: 59.87 kDa

Gene Summary: Many different human endogenous retrovirus (HERV) families are expressed in normal placental tissue at high levels, suggesting that HERVs are functionally important in reproduction. This gene is part of an HERV provirus on chromosome 7 that has inactivating mutations in the gag and pol genes. This gene is the envelope glycoprotein gene which appears to have been selectively preserved. The gene's protein product is expressed in the placental syncytiotrophoblast and is involved in fusion of the cytotrophoblast cells to form the syncytial layer of the placenta. The protein has the characteristics of a typical retroviral envelope protein, including a furin cleavage site that separates the surface (SU) and transmembrane (TM) proteins which form a heterodimer. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC213951