

## Product datasheet for **SC114945**

### ERVWE1 (ERVW-1) (NM\_014590) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | ERVWE1 (ERVW-1) (NM_014590) Human Untagged Clone                |
| Tag:                      | Tag Free  |
| Symbol:                   | ERVWE1  |
| Synonyms:                 | ENV; ENVW; ERVWE1; HERV-7q; HERV-W-ENV; HERV7Q; HERVW; HERVWENV |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>                                |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |



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**Fully Sequenced ORF:** >OriGene ORF within SC114945 sequence for NM\_014590 edited (data generated by NextGen Sequencing)

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ATGGCCCTCCCTTATCATATTTTTCTCTTTACTGTTCTTTTACCCTCTTTCACCTCACTCACT
GCACCCCTCCATGCCGTGTATGACCAGTAGCTCCCTTACCAAGAGTTTCTATGGAGA
ATGCAGCGTCCCGGAAATATTGATGCCCATCGTATAGGAGTCTTTCTAAGGGAACCC
ACCTTCACTGCCACACCCATATGCCCGCAACTGCTATCACTCTGCCACTCTTTCATG
CATGCAAATACTCATTATTGGACAGGAAAAATGATTAATCCTAGTTGCTCTGGAGACT
GGAGTCACTGTCTGTTGGACTTACTTACCCAACTGGTATGTCTGATGGGGTGGAGTT
CAAGATCAGGCAAGAAAAACATGTAAAAAGAAGTAATCTCCAACTCACCCGGGTACAT
GGCACCTCTAGCCCTACAAAGGACTAGATCTCTCAAACTACATGAAACCTCCGTACC
CATACTCGCTGGTAAGCCTATTTAATACCACCCTCACTGGGCTCCATGAGGTCTCGGC
CAAAACCTACTAAGTGTGGATATGCCTCCCTGAACTTCAAGCCATATGTTTCAATC
CCTGTACCTGAACAATGGAACAACCTTCAACAGAAATAAACACCACTCCGTTTTAGTA
GGACCTCTTGTTCCTGAAATAACCCATACCTCAAACTCACCTGTGTAATAATTT
AGCAATACTACATACACAACCACTCCCAATGCATCAGGTGGTAACTCCTCCACACAA
ATAGTCTGCCTACCTCAGGAATATTTTTGTCTGTGGTACCTCAGCCTATCGTTGTTG
AATGGCTCTTCAAGATCTATGTGCTTCTCTCATTCTTAGTGCCCTATGACCATCTAC
ACTGAACAAGATTTATACAGTTATGTCATATCTAAGCCCCGAACAAAAGAGTACCATT
CTTCTTTTGTATAGGAGCAGGAGTGCTAGGTGCACTAGGTAAGTGGCATTGGCGGTATC
ACAACCTACTCAGTTCTACTACAAATATCTCAAGAACTAAATGGGGACATGGAACGG
GTCGCGGACTCCCTGGTCACTTGAAGATCACTTAACTCCCTAGCAGCAGTAGTCCTT
CAAAATCGAAGAGCTTTAGACTTGCTAACCGCTGAAAGAGGGGAACTGTTTATTTTA
GGGAAGAATGCTGTTATTATGTTAATCAATCCGGAATCGTCACTGAGAAAGTTAAAGAA
ATTTCGAGATCGAATAACAACGTAGAGCAGAGGAGCTTCGAAACACTGGACCCTGGGCTC
CTCAGCCAATGGATGCCCTGGATTCTCCCTTCTTAGGACCTCTAGCAGCTATAATATTG
CTACTCTCTTTGGACCCTGTATCTTTAACCTCCTTGTAACTTTGTCTCTTCCAGAATC
GAAGCTGTAAAATAACAATGGAGCCCAAGATGCAGTCCAAGACTAAGATCTACCGCAGA
CCCCTGGACCGCCTGCTAGCCACGATCTGATGTTAATGACATCAAAGGCACCCCTCT
GAGGAAATCTCAGCTGCACAACCTCTACTACGCCCAATTCAGCAGGAAGCAGTTAG
    
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Clone variation with respect to NM\_014590.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_014590 unedited
NGGTCAAGCATTGTTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGTTGCCTAT
AGCCTTAAAAAATCTGCAACTTTCCCAAAAAGCAGACTTAGCCCATACGAAATGCTG
TATGGAAGGCCCTTCATAACCAATGACCTTGTGCTTGACCAAGACAGCCAACTTAGTTG
CAGACATCACTCCTTAGCCAAATATCAACAAGTTCTTAAAACATTACAAGGAACCTATC
CCTGAGAAGAGGGAAAAAGAACTATTCCACCCTTGTGACATGGTATTAGTCAAGTCCCTT
CCTCTAATTCCCATCCCTAGATACATCCTGGGAAGGACCTACCCAGTATTTTATCTA
CCCCAACTGCGGTTAAAGTGGCTGGAGTGGAGTCTGGATACATCACACTTGAGTCAAAAT
CCTGGATACTGCCAAAGGAACCTGAAAATCCAGGAGACAACGCTAGCTATTCTGTGAAC
CTCTAGAGGATTTGCGCCTGCTCTTCAAACAACAACCAGGAGGAAAGTAACTAAAATCAT
AAATCCCATGGCCCTCCCTTATCATATTTTTCTTTACTGTTCTTTTACCCTCTTTCA
CTCTCACTGCACCCCTCCATGCCGCTGTATGACCAGTAGCTCCCTTACCAAGAGTTTC
TATGGAGAATGCAGCGTCCCGGAAATATTGATGCCCATCGTATAGGAGTCTTTCTAAGG
GAACCCACCTTCACTGCCACACCCATATGCCCGCAACTGCTATCACTCTGCCACTC
TTTGATGCATGNCAATACTCATTATTGGACAGGANAATGATTAATCCTAGNTGCTCTGG
AGGACTTGGAGTCACTGTCTGTTGGACTTACTTACCCAACTGTATGTCTGATGGGGG
TGAGNTCAAGATCAGGCAGAGAAAAACATGTNANAGAAGTATCTCCAACCTCACCCGGGTCA
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|-------------------------------------|---|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_014590 unedited<br/>           TTTGTACCGCGCCGATTCTAGAGTCGAGTTTAATTCTTTTTTTTTTTTTTTTTTGCAGT<br/>           TGCAAGATTTAATAGAGTGAAATAGCATGAAAACAGAGCTCCCATACAAAGGGAGGGGAC<br/>           CCAAAGGGGGTTGCCGTTGCCGGCTCGAAGACTTGGGTTATATCCCGATCATTGTCCCT<br/>           CCTGCTGTGCTCTCAGGCAATAGATGATTGGCTATTTCTTTACCTCCTGTCTTTGCCTAA<br/>           TTAGCATTTTAGTGAGCTCTCTGATTGGTCAGGTGTGAGCTAAGTTGCAAGCCCCGTGTT<br/>           TAAAGGTGGATGTGGTCACCTTCCAGCTAGGCTTAGGGATTCTTAGTCAGCCTAGGAAA<br/>           TCCAGCTAGTCCTGTCTCTCAGTCCCCCATCTCAACAGGAAAACCTAAGTGCTGTTGGGG<br/>           AGTTGGCCGACGACCGCTCTAACTGCTTCTGCTGAATTGGGGCGTAGTAGAGTTGTG<br/>           CAGCTGAGATTTCTCAAGAGGGGTGCCTTTGATGTCATTAACATCAGATCGTGGGCTAG<br/>           CAAGCCGGTCCCAGGCTGCGGGAGATCTTAGTCTTTGACTGCATCTTGGGCTCCATTT<br/>           GTAGTTTTACAGTTCCATTCTGGGAGAGACAAAATTAACAAGGAGGGTAAAGAAACAGG<br/>           GGTCAAAAGAAAAGTACCATTATTATAGCTGCTATAAGTCCCTAAAAAAGGGAAAAATCC<br/>           CGGGGCATTCCATTGGCTTGAGGGGGCCCCAGGTCCTGGTTCAAACCTCCCCGGCT<br/>           CTACCGTGGATTCCGATCTCAAATTTCTTTAACTTCTCAAGGCAATTCCCCGTTGG<br/>           TTAACCAATTAACCGCCTTTCTCCCCAAAAAAGAGGTTCCCCCCTTTTACGGGGT<br/>           AACAAGGCTAAAGCCTCTCTCATTTGAAGGGAATCGGGTGTGGGAGTTAAAATTACCT<br/>           CCCGGGACAGGGGTCCA</p> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_014590   |
| <b>Insert Size:</b>                 | 2700 bp   |
| <b>OTI Disclaimer:</b>              | <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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>  |
| <b>Components:</b>                  | 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).  |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>RefSeq:</b>                      | <a href="#">NM_014590.3</a> , <a href="#">NP_055405.3</a>   |

RefSeq Size: 3044 bp

RefSeq ORF: 1617 bp

Locus ID: 30816

UniProt ID: [Q9UQF0](#)

Cytogenetics: 7q21.2

Domains: ENV\_polyprotein

Protein Families: Transmembrane

**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]

Transcript Variant: This variant (1) represents the longer, unspliced transcript. Variants 1 and 2 encode the same protein.