

Product datasheet for SC115244

CEMIP2 (NM_013390) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEMIP2 (NM_013390) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEMIP2
Synonyms:	TMEM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115244 sequence for NM_013390 edited (data generated by NextGen Sequencing)

```

ATGTATGCCACTGATTCCAGGGGACACTCCCCTGCTTTCCTCCAACCTCAGAATGGAAT
AGTCGTACCCATCTGGCTATGTTCCAGGAAGGTTGTCCATTGCGTCCCCCTCCTCT
CCAAAGAGTCAAGCTTCAGCCAAATTTACCTCCATCAGACGAGAAGACCGGGCAACCTTC
GCATTCTCACCTGAAGAACAGCAAGCCCAGAGAGAAAAGTCAAAAGCAAAAGAGACACAAA
AATACTTTTCATTTGTTTTGCTATTACTAGTTTCTCATTTTTTTATTGCACTTGCAATCATT
TTAGGAATATCCTCAAAATATGCTCCAGATGAAAATTGCCAGATCAAAATCCTCGTCTC
AGGAATTGGGATCCAGGACAAGATTCTGCAAAGCAAGTTGTTATCAAGGAGGGAGATATG
CTCCGTCTGACCTCAGACGCCACCGTGCATTCTATAGTCATTGAGGACTGCTT
GTATTTGGGGACAATAAAGATGGATCCAGAAATATTACTTTGAGGACTCATTACATCCTG
ATCCAGGATGGTGGGGCGCTTCATATTGGAGCAGAAAAATGCCGCTATAAATCCAAAGCG
ACAATTACCTTGTATGGCAAGTCAGATGAAGGTGAAAGTATGCCAACATTTGGCAAAAAG
TTTATTGGTGTGGAAGCTGGCGGGACACTGGAGTTACATGGGGCACGGAAGGCATCGTGG
ACGTTGTTGGCAAGGACCCTGAATTCCTCAGGCTTGCCCTTTGGGTCTATACCTTTGAA
AAGGACTTTTCCCGGGCCTCAATGTGAGGGTCATTGACCAAGACACGGCCAAAATTTTG
GAAAGTGAGAGATTTGATACCCATGAATACCGCAATGAGAGCAGGCGGCTCAGGAGTTT
CTGAGATCCAGGATCCAGGTCGGATTGTTGCCATAGCTGTGCGGGATTGAGCCGCTAAA
AGTCTCTTACAAGGAACCATCCAGATGATCCAGGAACGGTTGGAAGTGAAGTCAATCCAA
GGACTGGGCTACAGGCAAGCTTGGGCTTTAGTTGGTGTATTGATGGTGAAGCACTTCT
TGCAATGAATCCGTGAGAACTATGAAAATCATAGCAGTGGCGGGAAGGCTCTTGCCCAA
AGAGAATTTTATACTGTGGATGGCCAGAAGTTCTCTGTGACAGCTTATAGTGAATGGATT
GAAGGCGTTTCTTTTCCAGGATCCGGGTAGAGTTGTAGATGGAGTGAAGCTAAATTTG
CTAGATGATGTTAGTAGTTGAAACCTGGAGACCAGATTGTGGTCCGCAAGCACAGACTAT
TCCATGTACCAAGCAGAGGAGTTCACTCTTCTCCCTGTTCTGAATGCAGCCATTTTCAG
GTCAAAGTCAAAGAAACCCCTCAGTTCTGCACATGGGTGAGATCATAGACGGTGTAGAC
ATGAGAGCTGAGGTTGGAATTTACCCGGAATATTGTGATCCAAGGAGAAGTGGAGGAC

```



[View online »](#)

TCATGCTACGCAGAAAATCAGTGCCAATTTTTGATTATGATACCTTTGGGGACACATT
ATGATAATGAAAAATTTACTTCAGTCCATCTTCTTATGTGGAATTGAAACACATGGGT
CAGCAGCAGATGGGGCGATACCTGTTCATTTTACCTGTGTGGTGACGTGGATTATAAA
GGAGGATACAGACATGCAACATTTGTGGACGGCCTGTCTATTCACAGCTTCTCAAGG
TGCATCACTGTGCATGGGACAAAATGGCTTGCTAATAAAAGACACCATTGGGTTTGACACA
CTAGGTCAATGTTTCTTTTTGGAAGATGGTATTGAACAGAGGAATACTTTGTTCCACAAT
CTGGGACTCCTCACCAAGCCGGTACTCTCTGCCACCAGATAGGAACAACCTCCATGTGT
ACCACCATGCGAGATAAAGTGTTTGGAAAATTACATTCCTGTGCCTGCTACTGACTGTATG
GCTGTTTTCAACTTTCTGGATTGCTCATCCCAACAATAATCTGATTAATAATGCAGCTGCA
GGCTCACAGGATGCTGGAATATGGTATTTATTCCACAAGGAACCAACTGGGGAATCCAGT
GGATTGCAGCTCTTGGCAAACCAGAACTCACTCCATTGGGTATATTTTATAACAACAGG
GTCCATTCAAATTTAAGGCTGGCTTATTTATTGACAAAGGTGTCAAACAACCAACTCT
AGTGCTGTGACCCAAGGAATACCTCTGTTTGGACAATAGTGCAAGATTTGACCTCAT
CAGGATGCAAACCTCCGAAAAACACGTGTTGCTGCTCTAATTGACAGGCTCATTGCTTTT
AAAAATAATGATAATGGAGCTTGGGTGAGAGGAGATATTATCGTTCAAATTCAGCA
TTTGCAGATAATGGAATAGGACTGACCTTTGCCAGTGATGGAAGCTTCCCAAGTGATGAA
GGTTCAGCCAAGAGGTATCTGAATCTCTCTTTGTTGGGGAGAGCAGGAATTACGGCTTT
CAGGGTGGTCAGAACAAGTATGTAGGCACTGGAGGAATAGACCAGAAGCCTCGAACATTA
CCCAGGAACAGGACGTTCCCAATTAGAGGCTTTAGAGTTTATGATGGGCCATTTCATCTC
ACAAGGAGCACTTTCAAAAAATATGTGCCAACTCCAGATAGGTACAGCAGTGCAATTGGC
TTCTCATGAAGAATCTGCGCAGATAACCCCCAGGAATAATATCTCCCTCGTGAAGTTT
GGTCCACATGTCTCTGAATGTCTTTTTTGGAAAGCCTGGTCCCTGGTTTGAAGATTGT
GAGATGGATGGTATAAGAATCCATATCCATGACATTGATGGCTCTGTGACAGGATAC
AAGGATGCTTATGTGGGAAGAATGGACAACCTGATCCGCCATCCAAGCTGTGTAAT
GTGTCTAAGTGAATGCAGTGATCTGCAGTGGGACCTATGCACAGGTCTATGTACAGACA
TGGAGCACTCAGAATCTTTCTATGACCATTACACGAGATGAGTATCCGTTCAACCCTATG
GTGCTCCGAGGTATTAATCAGAAGGCTGCCTTTCCACAGTACCAGCCTGTCGTCATGCTG
GAGAAGGGTTATACCATCCACTGGAATGGGCCGGCACCACGGACTACATTTCTATACCTC
GTCAACTTCAACAAGAATGACTGGATTCGAGTTGGCCTTTGCTATCCATCAAACACAAGT
TTTCAAGTTACCTTTGGCTATTTGCAGCGCAGAAATGGCTCATTATCCAAAATCGAAGAA
TATGAGCCTGTGCATTCCTGGAAGAACTGCAAAGAAAGCAATCCGAGAGGAAATTCAT
TTTGACTCCAGCACGGGGTACTGTTTTTGTATCTCAAAGCCAAAAGCCACAGGCATGGC
CACAGTTACTGTTTCATCTCAGGGATGTGAAAGAGTCAAGATCCAAGCAGCCACAGACTCA
AAGGACATCAGTAACTGCATGGCCAAAGCATACCCACAGTACTACAGAAAGCCGTCAGTG
GTCAAGCGGATGCCGGCCATGCTCACTGGACTCTGTCAAGGCTGTGGCACTCGGCAGGTG
GTGTTTACTAGTGATCCTCATAAAAGTTACCTCCCTGTGCAATCCAGTCACCTGATAAA
GCAGAAACCCAGCGTGGAGACCCGTCTGTTATTTCTGTCAATGGCACTGACTTTACCTTC
CGAAGTGCAGGCGTCTCTCTCTTGTGTTGGATCCGTGCAGCGTTCATTCGGCTTGACG
GAAAAAACGGTTTTTCTCTTGTGATGTCAGTGCATTGAAGAGTATTTAAAAACAGGC
ATCCCTCCAAGGTCCATTGTTCTGTTGAGCACAAAGAGGAGAAATAAAGCAGTTAAACATT
TCACACTTACTAGTACCTCTGGGATTAGCCAAACCAGCTCATCTTTATGCAAAGGGAGT
ACCATATTTTTGGGATTCAGTGGAACTTTAAACCATCATGGACTAAGCTATTTACCAGT
CCTGCTGGACAGGGCCTTGGGGTCTTGAACAATTCATACCTTTGCAGCTGGACGAATAT
GGTTGTCCAGAGCCACCACTGTCCGAGAAGAGACCTGGAAGTCTAAAGCAAGCTTCA
AAAGCACATTAG

Clone variation with respect to NM_013390.2
2293 c=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_013390 unedited GGGTTTCGGATTTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGCGGCAAT CGAGTGGCTTCTCGGCATGGAGAGGAGATCTGGACCCGAGGACGCCAGGGACTCCTCTC CGTCTCCCTGGACCGCTGTGTAGGCACCTGAGTTAACGGACGCTAAGCGGGGTAGGGGAA GTAACAGTGTATCATGTATGCCACTGATTCCAGGGGACACTCCCCTGCTTTCCTCCAACC TCAGAAATGGAAATAGTCGTCACCCATCTGGCTATGTTCCAGGGAAGGTTGTCCTTGGC TCCCCCTCCTCCCAAAGAGTCAAGCTTCAGCCAAATTTACCTCCATCAGACGAGAAGA CCGGGCAACCTTCGCATTCTCACCTGAAGAACAGCAAGCCAGAGAGAAAAGTCAAAAGCA AAAGAGACACAAAATACTTTTCATTTGTTTTGCTATTACTAGTTTCTCATTTTTTTATTGC ACTTGCAATCATTTTAGGAATATCCTCAAAATATGCTCCAGATGAAAATTGCCAGATCA AAATCCTCGTCTCAGGAATTGGGATCCAGGACAAGATTCTGCAAAGCAAGTTGTTATCAA GGAGGGAGATATGCTCCGTCTGACCTCAGACGCCACCGTGCATTCTATAGTCATTAGGA TGGAGGACTGCTGTATTTTGGGACAATAAAGATGGATCCAGAAATATTACTTTGAGGAC TCATTACATCCTGATCCAGGATGGTGGGCGCTTCATATTGGAGCAGAAAATGCCGCTA TANATCCCAAGCGACCATTACCTTGTATGGCAAGTCAGATGAAGGTGAAAGTATGCCAC ATTTTGGCANAAAGTTTATTGTTGTGGGAAGCTGNCGGGACACTGGAGTTACATGGGGCA CCGGAAGCATCGTGGACGTTGTTGGCACGACN
Restriction Sites:	NotI-NotI
ACCN:	NM_013390
Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_013390.1</u> , <u>NP_037522.1</u>
RefSeq Size:	6147 bp
RefSeq ORF:	4152 bp
Locus ID:	23670
UniProt ID:	<u>Q9UHN6</u>
Cytogenetics:	9q21.13
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a type II transmembrane protein that belongs to the interferon-induced transmembrane (IFITM) protein superfamily. The encoded protein functions as a cell surface hyaluronidase that cleaves extracellular high molecular weight hyaluronan into intermediate size fragments before internalization and degradation in the lysosome. It also has an interferon-mediated antiviral function in humans through activation of the JAK/STAT signaling pathway. The activation of this gene by transcription factor SOX4 in breast cancer cells has been shown to mediate the pathological effects of SOX4 on cancer progression. Naturally occurring mutations in this gene are associated with autosomal recessive non-syndromic hearing loss. [provided by RefSeq, Mar 2017]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).