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Product datasheet for SC325411

CEMIP2 (NM_001135820) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: CEMIP2 (NM_001135820) Human Untagged Clone

Tag: Tag Free

Symbol: CEMIP2

Synonyms: TMEM2

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001135820, the custom clone sequence may differ by one or more nucleotides

ATGTATGCCACTGATTCCAGGGGACACTCCCCTGCTTTCCTCCAACCTCAGAATGGAAAT
AGTCGTCACCCATCTGGCTATGTTCCAGGGAAGGTTGTCCCATTGCGTCCCCCTCCTCCT
CCAAAGAGTCAAGCTTCAGCCAAATTTACCTCCATCAGACGAGAAGACCGGGCAACCTTC
GCATTCTCACCTGAAGAACAGCAAGCCCAGAGAGAAAGTCAAAAGCAAAAGAGACACAAA
AATACTTTCATTTGTTTTGCTATTACTAGTTTCTCATTTTTTATTGCACTTGCAATCATT
TTAGGAATATCCTCAAAATATGCTCCAGATGAAAATTGCCCAGATCAAAATCCTCGTCTC
AGGAATTGGGATCCAGGACAAGATTCTGCAAAGCAAGTTGTTATCAAGGAGGGAGATATG
CTCCGTCTGACCTCAGACGCCACCGTGCATTCTATAGTCATTCAGGATGGAGGACTGCTT
GTATTTGGGGACAATAAAGATGGATCCAGAAATATTACTTTGAGGACTCATTACATCCTG
ATCCAGGATGGTGGGGCGCTTCATATTGGAGCAGAAAAATGCCGCTATAAATCCAAAGCG
ACAATTACCTTGTATGGCAAGTCAGATGAAGGTGAAAGTATGCCAACATTTGGCAAAAAG
TTTATTGGTGTGGAAGCTGGCGGGACACTGGAGTTACATGGGGCACGGAAGGCATCGTGG
ACGTTGTTGGCAAGGACCCTGAATTCCTCAGGCTTGCCCTTTGGGTCCTATACCTTTGAA
AAGGACTTTTCCCGGGGCCTCAATGTGAGGGTCATTGACCAAGACACGGCCAAAATTTTG
GAAAGTGAGAGATTTGATACCCATGAATACCGCAATGAGAGCAGGCGGCTTCAGGAGTTT
CTGAGATTCCAGGATCCAGGTCGGATTGTTGCCATAGCTGTCGGGGATTCAGCCGCTAAA
AGTCTCTTACAAGGAACCATCCAGATGATCCAGGAACGGTTGGGAAGTGAACTGATCCAA
GGACTGGGCTACAGGCAAGCTTGGGCTTTAGTTGGTGTCATTGATGGTGGAAGCACTTCT
TGCAATGAATCCGTGAGAAACTATGAAAATCATAGCAGTGGCGGGAAGGCTCTTGCCCAA
AGAGAATTTTATACTGTGGATGGCCAGAAGTTCTCTGTGACAGCTTATAGTGAATGGATT
GAAGAAACCCCTCAGTTCCTGCACATGGGTGAGATCATAGACGGTGTAGACATGAGAGCT
GAGGTTGGAATTCTTACCCGGAATATTGTGATCCAAGGAGAAGTGGAGGACTCATGCTAC
GCAGAAAATCAGTGCCAATTTTTTGATTATGATACCTTTGGGGGACACATTATGATAATG
AAAAATTTTACTTCAGTCCATCTTTCTTATGTGGAATTGAAACACATGGGTCAGCAGCAG
ATGGGGCGATACCCTGTTCATTTTCACCTGTGTGGTGACGTGGATTATAAAGGAGGATAC
AGACATGCAACATTTGTGGACGGCCTGTCTATTCATCACAGCTTCTCAAGGTGCATCACT
GTGCATGGGACAAATGGCTTGCTAATAAAAGACACCATTGGGTTTGACACACTAGGTCAT
TGTTTCTTTTTGGAAGATGGTATTGAACAGAGGAATACTTTGTTCCACAATCTGGGACTC
CTCACCAAGCCGGGTACTCTCCTGCCCACCGATAGGAACAACTCCATGTGTACCACCATG

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CGAGATAAAGTGTTTGGAAATTACATTCCTGTGCCTGCTACTGACTGTATGGCTGTTTCA
ACTTTCTGGATTGCTCATCCCAACAATAATCTGATTAATAATGCAGCTGCAGGCTCACAG
GATGCTGGAATATGGTATTTATTCCACAAGGAACCAACTGGGGAATCCAGTGGATTGCAG
CTCTTGGCAAAACCAGAACTCACTCCATTGGGTATATTTTATAACAACAGGGTCCATTCA
AATTTTAAGGCTGGCTTATTTATTGACAAAGGTGTCAAAACAACCAACTCTAGTGCTGCT
GACCCAAGGGAATACCTCTGTTTGGACAATAGTGCAAGATTTCGACCTCATCAGGATGCA
AACCCCGAAAAACCACGTGTTGCTGCTCTAATTGACAGGCTCATTGCTTTTAAAAATAAT
GATAATGGAGCTTGGGTCAGAGGAGGAGATATTATCGTTCAAAATTCAGCATTTGCAGAT
AATGGAATAGGACTGACCTTTGCCAGTGATGGAAGCTTCCCAAGTGATGAAGGTTCCAGC
CAAGAGGTATCTGAATCTCTCTTTGTTGGGGAGAGCAGGAATTACGGCTTTCAGGGTGGT
CAGAACAAGTATGTAGGCACTGGAGGAATAGACCAGAAGCCTCGAACATTACCCAGGAAC
AGGACGTTCCCAATTAGAGGCTTTCAGATTTATGATGGGCCCATTCATCTCACAAGGAGC
ACTTTCAAAAAATATGTGCCAACTCCAGATAGGTACAGCAGTGCAATTGGCTTCCTCATG
AAGAATTCCTGGCAGATAACCCCCAGGAATAATATCTCCCTCGTGAAGTTTGGTCCACAT
GTCTCTCTGAATGTCTTTTTTGGAAAGCCTGGTCCCTGGTTTGAAGATTGTGAGATGGAT
GGTGATAAGAACTCCATATTCCATGACATTGATGGCTCTGTGACAGGATACAAGGATGCT
TATGTGGGAAGAATGGACAACTACCTGATCCGCCATCCAAGCTGTGTAAATGTGTCTAAG
TGGAATGCAGTGATCTGCAGTGGGACCTATGCACAGGTCTATGTACAGACATGGAGCACT
CAGAATCTTTCTATGACCATTACACGAGATGAGTATCCGTCCAACCCTATGGTGCTCCGA
GGTATTAATCAGAAGGCTGCCTTTCCACAGTACCAGCCTGTCGTCATGCTGGAGAAGGGT
TATACCATCCACTGGAATGGGCCGGCACCACGGACTACATTTCTATACCTCGTCAACTTC
AACAAGAATGACTGGATTCGAGTTGGCCTTTGCTATCCATCAAACACAAGTTTTCAAGTT
ACCTTTGGCTATTTGCAGCGGCAGAATGGCTCATTATCCAAAATCGAAGAATATGAGCCT
GTGCATTCACTGGAAGAACTGCAAAGAAAGCAATCCGAGAGGAAATTCTATTTTGACTCC
AGCACGGGGTTACTGTTTTTGTATCTCAAAGCCAAAAGCCACAGGCATGGCCACAGTTAC
TGTTCATCTCAGGGATGTGAAAGAGTCAAGATCCAAGCAGCCACAGACTCAAAGGACATC
AGTAACTGCATGGCCAAAGCATACCCACAGTACTACAGAAAGCCGTCAGTGGTCAAGCGG
ATGCCGGCCATGCTCACTGGACTCTGTCAAGGCTGTGGCACTCGGCAGGTGGTGTTTACT
AGTGATCCTCATAAAAGTTACCTCCCTGTGCAATTCCAGTCACCTGATAAAGCAGAAACC
CAGCGTGGAGACCCGTCTGTTATTTCTGTCAATGGCACTGACTTTACCTTCCGAAGTGCA
GGCGTCCTCCTCCTTGTTGTGGATCCGTGCAGCGTTCCATTCCGCTTGACGGAAAAAACG
GTTTTTCCTCTTGCTGATGTCAGTCGCATTGAAGAGTATTTAAAAACAGGCATCCCTCCA
AGGTCCATTGTTCTGTTGAGCACAAGAGGAGAAATAAAGCAGTTAAACATTTCACACTTA
CTAGTACCTCTGGGATTAGCCAAACCAGCTCATCTTTATGACAAAGGGAGTACCATATTT
TTGGGATTCAGTGGAAACTTTAAACCATCATGGACTAAGCTATTTACCAGTCCTGCTGGA
CAGGGCCTTGGGGTGCTTGAACAATTCATACCTTTGCAGCTGGACGAATATGGTTGTCCC
AGAGCCACCACTGTCCGCAGAAGAGACCTGGAACTGCTAAAGCAAGCTTCAAAAGCACAT

Restriction Sites: Please inquire

ACCN: NM_001135820

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001135820.1, NP_001129292.1

RefSeq Size: 6351 bp

RefSeq ORF: 3963 bp

Locus ID: 23670

UniProt ID: Q9UHN6

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 (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (b) has the same N- and C-termini but is shorter compared to isoform a.