

Product datasheet for **SC114540**

CEE (GET4) (NM_015949) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEE (GET4) (NM_015949) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEE
Synonyms:	C7orf20; CEE; CGI-20; TRC35
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015949, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCGGCGGCGGATGGCCGAGCAGGAGAGCGCCCGAACGGCGGCCCAACCGGCGGCGGTCC
AGCGTGTGGAGGGCAAGCTGCGCGCCAGCGTCGAGAAGGGCGACTACTACGAGGCGCACCAGATGTACCG
GACCCTGTTCTTCAGGTACATGTCCCAGAGCAAGCACACGGAGGCCCGGGAGCTCATGTACTCGGGAGCC
CTGCTCTTCTTCAGCCATGGCCAGCAAACAGTGCAGCAGACTTGTCCATGCTGGTCCTGGAGTCCCTGG
AGAAGGCGGAAGTGGAGGTGGCTGACGAGCTGCTGGAAAATCTGGCTAAAGTGTTTCAGCCTGATGGACCC
CAACTCTCCTGAGCGCGTGACCTTTGTGTCCAGAGCCCTGAAGTGGTCCAGTGGGGGCTCCGGGAAGCTG
GGCCACCCCGGCTGCACCAGCTGCTGGCCCTCACCTGTGGAAAGAACAAAATTATTGTGAGTCGAGGT
ATCATTTTCTGCACTCAGCGGACGGGGAGGGCTGTGCCAACATGCTGGTGGAGTATTCCAGTCCCGCGG
CTTCCGCAGCGAGGTGGACATGTTTCGTGGCCAGGCCGTGCTACAGTTTCTCTGTTTAAAAACAAAAGT
AGCGCATCGGTGGTCTTTCACGACGTACACCCAGAAGCACCCGTCCATCGAGGACGGGCTCCGTTTGTGG
AGCCGCTGCTTAACCTCATCTGTTCTCTGCTGCTGGCTGTGGACGGTGGGAAGCTGACGGTGTTCAGTGT
GCTGTGTGAGCAGTACCAGCCATCCCTCCGGCGGGACCCCATGTACAACGAGTACCTCGACCGCATAGGA
CAGCTGTTCTTCGGCGTCCCGCCAAGCAGACGTCTTCTACGGGGGCTGCTCGGGAACCTTCTGACCA
GCCTCATGGGCTCCTCAGAGCAGGAGGATGGGGAGGAGAGCCCGACGCGCAGCCCATCGAGCTGGA
CTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015949 unedited ATAGGCGGCACGCGAATTCGCACGAGGGATAGCGCCCGGAACGGCGGCCCAACCGCGGC GGCGTCCAGCGTGTGGAGGGCAAGCTGCGCGCCAGCGTCGAGAAGGGCGACTACTACGAG GCGCACCAGATGTACCGGACCCTGTTCTTCAGGTACATGTCCCAGAGCAAGCACACGGAG GCCCGGGAGCTCATGTA CTGGGAGCCCTGCTCTTCTTCAGCCATGGCCAGCAAAACAGT GCAGCAGACTTGCCATGCTGGTCTGGAGTCCCTGGAGAAGGCGGAAGTGGAGGTGGCT GACGAGCTGCTGGAAAACTGGCTAAAGTGTTCAGCCTGATGGACCCCAACTCTCCTGAG CGCGTGACCTTTGTGTCCAGAGCCCTGAAGTGGTCCAGTGGGGGCTCCGGGAAGCTGGGC CACCCCGGCTGCACCAGCTGCTGGCCCTCACCTGTGGAAAGAACAAAATATTGTGAG TCGAGGTATCATTTTCTGCACTCAGCGGACGGGAGGGCTGTGCCAACATGCTGGTGGAG TATTCACGTCCCGCGGCTTCCGCAGCGAGGTGGACATGTTCTGGTCAAGCCGTGCTA CAGTTTCTCTGTTAAAAAACAAGTAGCGCATCGGGTGGTCTTACGACGTACACCCA GAAGCACCCGTCCATCGAGGACGGGCTNCGTTTGTGGAGCCGCTGCTTAACTCATCTGG TTCCTGCTGCTGGCTGNNGGACGGTGGGAGCTNNACGTGGTCACTGGGCTGTGTGAACA GTACCAGATTCTTNCGGGGACCCATGTCCACGAGTACTCGACGCTAGGACAGCTGTT TTTGGGGTCCGAAACAACGCTCTTAAAGGGGCTGTGGGACCTTTGACAGCTCTG GCTCTCAAAGAGGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_015949
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:	NM_015949.2 , NP_057033.2
RefSeq Size:	2106 bp
RefSeq ORF:	984 bp
Locus ID:	51608
UniProt ID:	Q7L5D6
Cytogenetics:	7p22.3

Gene Summary:

As part of a cytosolic protein quality control complex, the BAG6/BAT3 complex, maintains misfolded and hydrophobic patches-containing proteins in a soluble state and participates to their proper delivery to the endoplasmic reticulum or alternatively can promote their sorting to the proteasome where they undergo degradation (PubMed:20676083, PubMed:21636303, PubMed:21743475, PubMed:28104892). The BAG6/BAT3 complex is involved in the post-translational delivery of tail-anchored/type II transmembrane proteins to the endoplasmic reticulum membrane. Recruited to ribosomes, it interacts with the transmembrane region of newly synthesized tail-anchored proteins and together with SGTA and ASNA1 mediates their delivery to the endoplasmic reticulum (PubMed:20676083, PubMed:28104892, PubMed:25535373). Client proteins that cannot be properly delivered to the endoplasmic reticulum are ubiquitinated and sorted to the proteasome (PubMed:28104892). Similarly, the BAG6/BAT3 complex also functions as a sorting platform for proteins of the secretory pathway that are mislocalized to the cytosol either delivering them to the proteasome for degradation or to the endoplasmic reticulum (PubMed:21743475). The BAG6/BAT3 complex also plays a role in the endoplasmic reticulum-associated degradation (ERAD), a quality control mechanism that eliminates unwanted proteins of the endoplasmic reticulum through their retrotranslocation to the cytosol and their targeting to the proteasome. It maintains these retrotranslocated proteins in an unfolded yet soluble state condition in the cytosol to ensure their proper delivery to the proteasome (PubMed:21636303).[UniProtKB/Swiss-Prot Function]