

## Product datasheet for **SC308603**

### DEF8 (NM\_207514) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DEF8 (NM_207514) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEF8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_207514 edited

```

ATGCCATCCTGTCCCTGCGAGCCCTGGGCCCTGGCAGGCGATGCAGGTATGGGCAGAC
AGGACGCTGTTGACTCCGCACACCGGCGTGACTTCTCAGTTCTCGGGGTGGCAGCTGCA
GTGATGACACCGCTTCTGGTGGTCACGCCGCGGGCAGGACGCGGAGGCCAGGTGGGAT
GCTATGGAATATGATGAGAAGCTGGCCCGTTTCCGGCAGGCCACCTCAACCCCTTCAAC
AAGCAGTCTGGGCCGAGACAGCATGAGCAGGGCCCTGGGGAGGAGGTCCCGGACGTCACT
CCTGAAGAGGCCCTGCCTGAGCTGCCCCCTGGGGAGCCGGAATCCGCTGCCCTGAACGC
GTGATGGATCTCGGCCTGTCTGAGGACCACTTCTCCGCCCTGTGGGTCTGTTCTGGCC
TCTGACGTCCAGCAGTGCGGCAGGCGATCGAGGAGTGAAGCAGGTGATTCTGGAGCTG
CCCCGAGCAGTCCGAGAAGCAGAAGGATGCCGTGGTGCGACTCATCCACCTCCGGTGAAG
CTCCAGGAGCTGAAGGACCCCAATGAGGATGAGCCAACATCCGAGTGTCTTGGAGCAC
CGCTTTTACAAGGAGAAGAGCAAGAGCGTCAAGCAGACCTGTGACAAGTGAACACCATC
ATCTGGGGGCTCATTAGACCTGGTACACCTGCACAGGGTGTATTACCGCTGTCACAGT
AAGTGCTTGAACCTCATCTCCAAGCCCTGTGTGAGCTCCAAAGTCAGCCACCAAGTGAA
TACGAAGTGAACATCTGCCCTGAGACAGGGCTGGACAGCCAGGATTACCGCTGTGCCGAG
TGCCGGGCGCCCATCTCTGCGGGGTGTGCCAGTGAGGCCAGGCAGTGCAGTACACC
GGCCAGTACTACTGCAGCCACTGCCACTGGAACGACCTGGCTGTGATCCCTGCACGCGTT
GTACACAAGTGGGACTTTGAGCCTCGAAAGTTTCTCGCTGCAGCATGCGCTACCTGGCG
CTGATGGTGTCTCGGCCGTAAGTCTCAGGCTCCGGGAGATCAACCCTCTGCTGTTACAGTAC
GTGGAGGAGCTGGTGGAGATTCCGAAGCTGCGCCAGGACATCCTGCTCATGAAGCCGTAC
TTCATCACCTGCAGGGAGGCCATGGAGGCTCGTCTGCTGCTGCAGCTCCAGGATCGGCAG
CATTTTGTGGAGAACGACGAGATGTACTCTGTCCAGGACCTCCTGGACGTGCATGCCGGC
CGCCTGGGCTGCTCGCTCACCGAGATCCACACGCTCTTCGCCAAGCACATCAAGTGGAC
TGCGAGCGGTGCCAGGCCAAGGGCTTCGTGTGTGAGCTCTGCAGAGAGGGCGACGTGCTG
TTCCCGTTCGACAGCCACACGCTGTGTGCGCCGACTGCTCCGCGGTCTTCCACAGGGAC
TGCTACTACGACAACCTCCACCATTGTCCCAAGTGTGCCCGGCTCAGCCTGAGGAAGCAG
TCGCTCTTCCAGGAGCCAGGTCCCGATGTGGAGGCCTAG

```



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_207514 unedited</p> <pre>GTAAGGTTAAATATTTGTATACGACTACTATAGGCGGCCGATTTCATGGCCATCCTGT CCCTGCGAGCCCTGGGCCCTGGCAGGCGATGCAGGTATGGGCAGACAGGACGCTGTTGA CTCCGCACACCGGCGTGACTTCTCAGGTTCTCGGGGTGGCAGCTGCAGTGATGACACCGC TTCCTGGTGGTCACGCCCGGGCAGGACGCGGGAGGCCAGGTGGGATGCTATGGAATATG ATGAGAAGCTGGCCCGTTTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGTCTGGGC CGAGACGATGAGCAGGGCCCTGGGGAGGAGGTCCCGGACGTCCTCCTGAAGAGGCC TGCTGAGCTGCCCTGGGGAGCCGGAATTCGCTGCCCTGAACGCGTGATGGATCTCG GCCTGTCTGAGGACCACTTCTCCCGCCCTGTGGGTCTGTTCTGGCCTCTGACGTCCAGC AGCTGCGGCAGGCGATCGAGGAGTGCAAGCAGGTGATTCTGGAGCTGCCCGAGCAGTCGG AGAAGCAGAAGGATGCCGTGGTGCAGTCCACCTCCGGTGAAGCTCCAGAGCTGA AGGACCCCATGAGGATGAGCCAAACATCCGAGTGCNTCTTGAGCACCGCTTTTTACAGG AGAAGAAGCAGAGCGTCAAGCAGACCCTGTGACAGGTGTAAACCATCATCTGGGGGCTC ATTCAGACCTGGTACACCTGCACAGGGTGGTTATTACAGCTGTCACAGTTAAGTGCTTTG AACTCATCTTCAAGCCCTGTGTGAGCCTCAAGATCACCCCAAGCTGTATACGAACTNG ACATCTGGCCTGGAACAGGGCTGGACGGCAGGAATTACCCTGGGCCGAGTGCCGGGCGC CCATTTTTTTGGGGTGGGCCCC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;Reverse primer walk for NM_207514 unedited</p> <pre>AGGGNNCCCGNACCCCGAGGTTNCTNCCGNANCAGNAAGGAACAACCTTGATGTTGGCA GGGTGGTCTCGCGGGCCAGGCGGGGTGCCAGCACTGTTCTCGGCGCTAGGCCTCCA CATCGGGACCTGGCTCCTGGAAGAGCGACTGCTTCTCAGGCTGAGCCGGGCACACTTGG GACAAGTGGTGGAGTTGTCGTAGTAGCAGTCCCTGTGGAAGACCCGGAGCAGTCGGCGC ACACAGACGTGTGGCTGTGCAACGGGAACAGCACGTCCCTCTCTGCAGAGCTCACACA CGAAGCCCTTGGCTGGCACCGCTCGCAGTCCAGCTTGATGTGCTTGGCGAAGAGCGTGT GGATCTCGGTGAGCGAGCAGCCAGGCGCCGGCATGCACGTCCAGGAGTCTTGACAG AGTACATCTCGTCTTCCACAAAATGCTGCCGATCCTGGAGCTGCAGCAGCAGACGAG CCTCCATGGCCTCCCTGCAGGTGATGAAGTACGGCTTCATGAGCAGGATGTCTGGCGCA GCTTGGCAATCTCCACCAGCTCCTCCACGTAGCTGAACAGCAGAAGGTTGATCTCCCGGA GCCTGAGTACCGGCCGAGACACCATCAGCGCCAGGTAGCGCATGCTGCAGCGAGAAACCT TTCGAGGCTCANAGTCCCAGTTGTGTACCACGCGTGCAGGGATCACAGCCNAGTCGTTCC AGTGGCAGTGGTGCAGTAGTACTGGGCGGTGTAGTCCCCTGGCTGCCCTCACTGGGCA CACCCCGCANAGAGATGGGCGCCCGGCACTCGGGACAGCGGTAATCCTGGCTGCCAGC CCTGTCTCAGGGCAGATGTTTCAGTTCGATTCA</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_207514
<b>Insert Size:</b>	3700 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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).

**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\\_207514.1](#), [NP\\_997397.1](#)

**RefSeq Size:** 3724 bp

**RefSeq ORF:** 1539 bp

**Locus ID:** 54849

**UniProt ID:** [Q6ZN54](#)

**Cytogenetics:** 16q24.3

**Gene Summary:** Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts. Involved in bone resorption.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.