

Product datasheet for **SC111258**

DEF6 (NM_022047) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEF6 (NM_022047) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEF6
Synonyms:	IBP; SLAT; SWAP70L
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_022047, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCTGCGCAAGGAAGTCTCAAGTCCATCTGGTACGCTTTACCGCGCTGGACGTGGAGAAGAGTG
GCAAAGTCTCCAAGTCCCAGCTCAAGGTGCTGCCACAACCTGTACACGGTCTGCACATCCCCATGA
CCCCGTGGCCCTGGAGGAACACTCCGAGATGATGATGACGGCCCTGTGCCAGCCAGGGATACATGCC
TACCTCAACAAGTACATCCTGGACAAGGTGGAGGAGGGGCTTTTGTAAAGAGCACTTTGATGAGCTGT
GCTGGACGCTGACGGCCAAGAAGAACTATCGGGCAGATAGCAACGGGAACAGTATGCTCTCCAATCAGGA
TGCCTTCCGCCTCTGGTGCCTCTTCAACTTCTGTCTGAGGACAAGTACCCTCTGATCATGGTTCCTGAT
GAGGTGGAATACCTGCTGAAAAAGGTAAGTACTCAGCAGCATGAGCTTGGAGGTGAGCTTGGGTGAGCTGGAGG
AGCTTCTGGCCAGGAGGCCAGGTGGCCAGACCACCGGGGGCTCAGCGTCTGGCAGTTCCTGGAGCT
CTTCAATTCGGGCCGCTGCCTGCGGGGCGTGGCCGGGACACCCTCAGCATGGCCATCCACGAGGTCTAC
CAGGAGCTCATCCAAGATGCTCTGAAGCAGGGCTACCTGTGGAAGCGAGGGCACCTGAGAAGGAAGTGGG
CCGAACGCTGGTTCAGCTGCAGCCAGCTGCCTGCTACTTTGGGAGTGAAGAGTGCAAAGAGAAAAG
GGGCATTATCCCCTGGATGCACACTGCTGCGTGGAGGTGCTGCCAGACCAGCGACGAAAGCGCTGCATG
TTCTGTGTGAAGACAGCCAACCGCACGTATGAGATGAGCGCTCAGACACGCGCCAGCGCCAGGAGTGGA
CAGCTGCCATCCAGATGGCGATCCGGCTGCAGGCCGAGGGGAAGACGTCCCTACACAAGGACCTGAAGCA
GAAACGGCGCAGCAGCGGGAGCAGCGGGAGCGGGCGCCGGGGCGCAAGGAAGAGGAGCTGCTGCGGCTG
CAGCAGCTGCAGGAGGAGAAGGAGCGGAAGCTGCAGGAGCTGGAGCTGCTGCAGGAGGCGCAGCGGCAGG
CCGAGCGGCTGCTGCAGGAGGAGGAGGAACGGCGCCGAGCCAGCAGCCGCGAGCTGCAGCAGGCGCTCGA
GGGCCAACTGCGGAGGCGGAGCAGGCCCGGGCTCCATGCAGGCTGAGATGGAGCTGAAGGAGGAGGAG
GCTGCCCGCAGCGCAGCGCATCAAGGAGCTGGAGGAGATGCAGCAGCGGTTGCAGGAGCCCTGCAAC
TAGAGGTGAAAGCTCGGGGAGATGAAGAATCTGTGCGAATCGCTCAGACCAGACTGCTGGAAGAGGAGGA
AGAGAAGCTGAAGCAGTTGATGCAGCTGAAGGAGGAGCAGGAGCGCTACATCGAACGGGCGCAGCAGGAG
AAGGAAGAGCTGCAGCAGGAGATGGCACAGCAGAGCCGCTCCCTGCAGCAGGCCAGCAGCAGCTGGAGG
AGGTGCGGCAGAACCGCAGAGGGCTGACGAGGATGTGGAGGCTGCCAGAGAAAAGTGCGCCAGGCCAG
CACCAACGTGAAACTGGAATGTCCAGATGAACCGGCTGATGCATCCAATTGAGCTGGAGATAAGCGT
CCGGTACCAGCAGCTCCTTCTCAGGCTTCCAGCCCCCTGCTTGCACCAGTACTCCTCCCTAAAGC
GCCTGACCCGCTGGGATCCCAGGGCAACAGGACCCCTCGCCCAACAGCAATGAGCAGCAGAAGTCCCT
CAATGGTGGGATGAGGCTCCTGCCCGGCTTCCACCCTCAGGAAGATAAACTGGATCCAGCACCAGAA
AATTAG
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_022047 unedited
GTGCACATTTGTATACGACTCACTATAGGCGGCCGCAATTTCGCACGAGGGCCGGGCGGG
CGCCTCAGCCATGGCCCTGCGCAAGGAAGTCTCAAGTCCATCTGGTACGCTTTACCGC
GCTGGACGTGGAGAAGAGTGGCAAAGTCTCCAAGTCCCAGCTCAAGGTGCTGTCCACAA
CCTGTACACGGTCTGTCACATCCCCATGACCCCGTGGCCCTGGAGGAACACTCCGAGA
TGATGATGACGGCCCTGTGTCAGCCAGGGATACATGCCCTACCTCAACAAGTACATCCT
GGACAAGGTGGAGGAGGGGCTTTTGTAAAGAGCACTTTGATGAGCTGTGCTGGACGCT
GACGGCCAAGAAGAACTATCGGGCAGATAGCAACGGGAACAGTATGCTCTCCAATCAGGA
TGCCTTCCGCCTCTGGTGCCTCTTCAACTTCTGTCTGAGGACAAGTACCCTCTGATCAT
GGTTCCTGATGAGGTGGAATACCTGCTGAAAAAGGTAAGTACTCAGCAGCATGAGCTTGGAGGT
GAGCTTGGGTGAGCTGGAGGAGCTTCTGGCCAGGAGGCCAGGTGGCCAGACCACCGG
GGGGCTCAGCGTCTGGCAGTTCCTGGAGCTTTCAATTCCGGGCCGCTGCCTGCGGNGCGT
GGGCCGGGACACCCTCAGCATGGCCATCCACGAGGTCTACCAGGAGCTCNATCCAGATGT
CCTGAAGCAGGGTACCTGTGGAAGCGAGGGCACCTGAGAAGAACTGNGCCGAACGCTTG
TTTCAGCTGCAGCCAGCTGCCTGCTACTTTGGGAGTGAAGAGTGCAAAGAGAAAAGG
GGCCATATCCCCTGGATGCACACTGCTGCGTGGAAAGGTGCTGCCANACGCGACNGAA
AGCGCTGCATGTTCTGTGTTGAGAAAGACC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022047 unedited TCTTGGCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCATTCTAAAAGC AGTTTTTATTTAGAAATGTGCTTCCACAACCTGGTGGCCACCTGGGGGCAGGTAGCCCCG GCTTGCTTGTCTCTCTTCTAGCCCAAGAATCGGGTCTTGGGTCTAAAGCACAGGGC CAAGTTCTCAAGGATCAACATCCCAGACAGCTCCCATGGTCTGGGGCTTGGAGCTGGTAT GAAGGGTGAACCAGGTTCCATCTGACTGTTTATGGTTGGAGGGCCTGGGCCCTGGCA CCAGGACCTCAGCTCCCTCTCTAGTAAGAGCTGGGATCACCCACAGGCCAGCTGTGGCC AGGTCCTGGTGGATATGACATTGGGAAGAACAAGGGGCTAAGAGAGGCTAATTTTCTGGT GCTGGATCCAGTTTATCTTCTGAGGGGTGGAAGCCGGGGCAGGAGCCTCATCCCCACCA TTGAGGGACTTCTGCTGCTCATTGCTGTTGGGCGAGGGGCTCTGTTGCCCTGGGATCCC CAGCGGGTCAAGCGCTTTAGGGAGGAGTACGGTGGGCAAGCAGAGGGGGCTGGAAGCCT GAGAAGGAGCTGCTGGTGACCGGACGCTTATCTCCAGGCTCAATTGGATGCATCAGCCGG TTCATCTGGACATTCCAGTGTTCACGTTGGTGTGCTGGCCTGGCGCAGTTTTCTCTGGCA GCCTCCACATCCTCGTCAGCCCTCTGCCGGTCTGCCGCACCTCTNCAGCTGCTGCTGG GCCTGCTGCAGGNAGCGGCTCTGCTGTGCATCTCCTGCTGCAGCTCTTCCTTCTCCTGCT GGCCCCNNTCGATGTACGGCTCCTGCTCCTCCTCAGCTGGATAACTGCTTCAGCTCTCT TCTCCTTTCANAGCCTGGCTGGACGATCCCAAGGAATTTTCATTTGCGAGCTCACCTTT AGTGCGAGCCTCTGCACCGG
Restriction Sites:	NotI-NotI
ACCN:	NM_022047
Insert Size:	2430 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:	NM_022047.2 , NP_071330.2
RefSeq Size:	2320 bp
RefSeq ORF:	1896 bp
Locus ID:	50619
UniProt ID:	Q9H4E7
Cytogenetics:	6p21.31
Domains:	PH

Protein Families: Druggable Genome

Gene Summary: DEF6, or IBP, is a guanine nucleotide exchange factor (GEF) for RAC (MIM 602048) and CDC42 (MIM 116952) that is highly expressed in B and T cells (Gupta et al., 2003 [PubMed 12923183]).[supplied by OMIM, Mar 2008]