

Product datasheet for **MG207144**

Def8 (NM_054046) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_054046) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Def8
Synonyms:	AI449518; D8Ertd713e; DEF-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207144 representing NM_054046
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATATGATGAGAAGCTGGTTCGGTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGCTTGGTC
 CGAGGCATCATGAACAGGAACCCAGTGAGAAGGTCACTTCTGAAGACACTTTCCTGAGCTGCCCGCTGG
 GGAGCCTGAATCCACTACTCGGAGCGCATGATGGATCTCGGCCTGTCTGAGGACCACTTTCCCGCCT
 GTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGCTGCGGCAGGCCATCGAAGAATGCAAACAGGTGATCC
 TGGAGCTGCCGAGCAGTCAGAGAAGCAGAAGGACGCTGTGGTGC GGCTGATCCACCTCCGGCTGAAGCT
 CCAGGAGCTGAAGGACCCCAATGAGGAGGAACCAACATCCGGGTTCTCTGGAACATCGCTTCTACAAG
 GAGAAGAGCAAGAGCGTTAAACAGACCTGCGATAAGTGAACACCATCATCTGGGGGCTCATCCAGACCT
 GGTACACCTGCACAGGTGTTGTTACCCTGTACAGCAAGTGCCTGAACCTCATCTCAAACCATGTGT
 CAGCTCCAAGGTGAGTACCAGGCTGAGTATGAGCTGAACATCTGCCCTGAGACCGGGCTGGACAGCCAG
 GACTACCCTGTGCGGAGTGCCGTGCTCCCATCTCTGAGAGGTGTGCCTAGTAGGACCGCCGAGTGTG
 ACTACACGGGCCAATACTACTGCAGCCACTGCCACTGGAACGACCTGGCTGTATCCCGCGAGAGTGGT
 GCACAACCTGGGACTTTGAGCCACGCAAGGTGTCCCGTTGCAGCATGCGCTACCTGGCACTGATGGTGTCT
 CGGCCAGTGTCCGGCTCCGGGAGATTAACCCTTTGTGTTTAACTACGTGGAAGAGCTGGTGGAGATCC
 GGAAACTGCGCCAGGACATCCTGCTCATGAAGCCATACTTATCACCTGCAAGGAGGCCATGGAGGCGCG
 ACTACTGCTGCAGCTCCAAGACAGACAGCATTTTGTGGAGAACGATGAGATGACTCTATCCAGGACCTC
 TTGGAAGTGCACATGGGCCGCTCAGCTGCTCGCTCACTGAGATCCACACGCTCTTCGCCAAGCAGTCA
 AGTTGGACTGTGAGCGGTGCCAAGCCAAGGGTTCGTCTGTGAACCTGCAAAGAAGGGGACGTGCTCTT
 CCCGTTGACAGCCACAGTCTGTGTGCAATGACTGTTCCGGCTGTCTTCCACAGGACTGTTACTACGAC
 AACTCGACCACGTGCCCAAGTGTGCCCGCTCACATTGAGGAAGCAGTACTATTCCAGGAACCTGGCC
 TAGACATGGATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

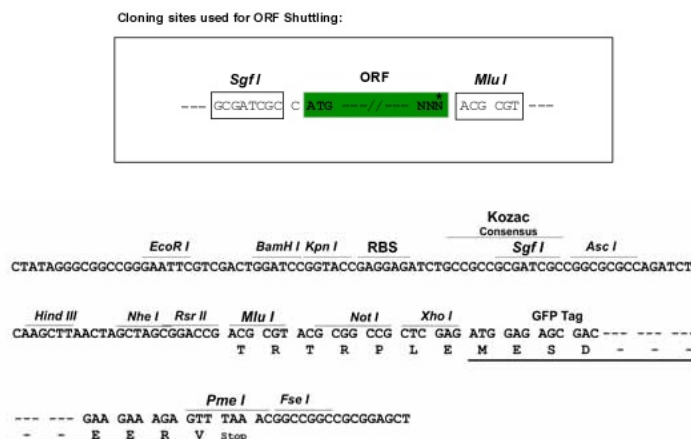
>MG207144 representing NM_054046
 Red=Cloning site Green=Tags(s)

MEYDEKLVRFQAHLPFNKQLGPRHHEQEPSEKVTSEDLPPELPAPEPEFHYSERMMDLGLSEDFSRP
 VGLFLASDVQQLRQAIIECKQVILELPEQSEKQKDAVVRLIHLRLKLQELKDPNEEEPNIIRVLEHRFYK
 EKSKSVKQTCDKNTIIWGLIQTWYCTGCCYRCHSKLNLISKPCVSSKVSHQAEYELNICPETGLDSQ
 DYRCAECRAPISLRGVPSEARQCDYTGQYYCSHCHWNLAVIPARVVHNWDFEPRKVSRCMRYLALMVS
 RPVLRLEINPLLFNYVEELVEIRKLRQDILLMKPYFITCKEAMEARLLLQLQDRQHFVENDEMYSIQDL
 LEVHMGRLSCSLTEIHTLFAKHILDCERCQAKGFVCELKEGDVLPFDSTSVNCNCSAVFHRDCYYD
 NSTTCPKCARLTLRKQSLFQEPGLMDA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_054046

ORF Size: 1344 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_054046.5](#), [NP_473387.1](#)

RefSeq Size: 3786 bp

RefSeq ORF: 1347 bp

Locus ID: 23854

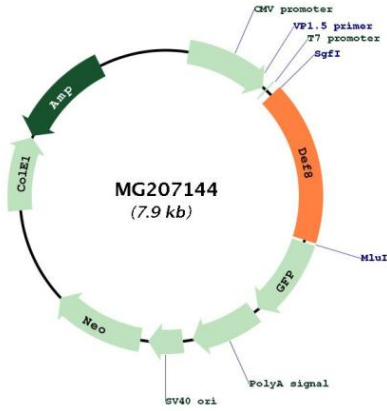
UniProt ID: [Q99J78](#)

Cytogenetics: 8 72.1 cM

Gene Summary:

Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (PubMed:2777970). Involved in bone resorption (PubMed:2777970). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207144