

Product datasheet for **SC127205**

Dymeclin (DYM) (AK091256) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dymeclin (DYM) (AK091256) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dymeclin
Synonyms:	DMC; SMC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127205 sequence for AK091256 edited (data generated by NextGen Sequencing)

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ATGGGATCGAATAGCAGCAGAATCGGGATCTTCCTAAAAATGAGTACTTGAAAAAGTTA
TCAGGCACGGAATCTATCTCTGAGAATGACCCGTTCTGGAATCAGCTTCTCTCATTTTCT
TTCCCTGCACCAACTAGCAGTAGTGAGTTGAAACTCTTGAGGAAGCAACCATTTTCAGTC
TGCAGGTCAATTAGTTGAAAAAATCCTCGAACAGGAAATCTTGGTGCACATAATTAAGTCT
TTCCCTTTCTAGAACCACAAAGAACTAAAACCTTTCAGCAGAATGTCAGAACCACATCTTCATT
TGGCAGACACACAATGCTTTGTTTATTATTTGCTGTTTGTGAAAGTGTTTCATCTGTCAG
ATGTCAGAGGAGGAATTACAACCTCATTCTTACTTATGAAGAAAAATCTCCTGGCAATTAC
AGTTCTGACTCAGAAGATCTTTTGAAGAATTGCTGTGCTGTTTGTGATGCAGTTGATCACT
GATATTCCTCTTAGATATTACATATGAAATATCAGTAGAAGCTATATCAACAATGGTT
GTTTTCTTTCTGCCAACTCTCCACAAAGAAGTTTTGCGACAGAGCATCAGCCACAAG
TATTTGATGCGAGGTCCATGTCTCCATACACCAGCAAACCTGTGAAGACCTTATTATAT
AACTTTATCAGACAAGAAAAGCCACCTCCTCCAGGGGCCATGTTTTCCCTCAGCAGTCG
GATGGGGGAGGACTGCTTTATGGACTTGATCAGGAGTAGCAACAGGACTCTGGACTGTC
TTCACACTAGGTGGTGTGGGCAGCAAAGCGGCTGCCTCTCCAGAGCTTTCTCCCTCTG
GCCAACCCAGAGTCTCCTGCTTCTGCTGGTGTGGCCAATCTGACAGATGCCTCAGATGCG
CCAAACCCCTACAGACAAGCCATTATGTCTTCAAGAACACACAAGATAGCAGTCCTTTC
CCCTCATCAATCCACATGCCTTCCAGATCAACTTTAATAGTTTGTACACAGCTCTTTGT
GAACAGCAGACATCTGATCAAGCAACTCTCCTCTGTATACCTTGCTCCATCAAAATAGT
AATATTAGAACATACATGTTGGCTCGCACAGATATGAAAAATCTTGTTTTACCAATTCTT
GAGATTCTGTATCATGTTGAAGAAAGGAATTCACACCATGTGTATATGGCCCTTATAATA
TTGTTGATCCTTACGGAAGATGATGGCTTCAACAGATCCATTTCATGAAGTGATACTAAAA
AATATTACTTGGTATTCAGAACGAGTTTTAACTGAAATCTCCTTGGGGAGTCTCCTGATC
CTGGTGGTAATAAGAACCATTCAATACAACATGACTAGGACACGAGACAAGTACCTTCAC
ACAAATGTTTGGCAGCTTTAGCAAAATATGTCGGCACAGTTTCGTTCTCTCCATCAGTAT
GCTGCCCAGAGGATCATCAGTTTATTTCTTTGCTGTCTAAAAAACACAACAAAGTTCTG
GAACAAGCCACACAGTCTTGGAGGTTTCGCTGAGTTCTAATGATGTTCTCTACCAGAT
TATGCACAAGACCTAAATGTCATTGAAGAAGTATTGGAATGATGTTAGAGATCATCAAC
TCCTGCCTGACAAATCCCTTACCACAACCCAAACTTGGTATACGCCCTGCTTTACAAA
CGCGATCTCTTTGAACAATTTGAACTCATCCTTCATTTTCAGGATATAATGCAAAATATT
GATCTGGTGTATCTCCTTCTTAGCTCAAGTTGCTGCAAGCTGGAGCTGAGCTGTGAGTG
GAACGGTCTCTGAAATCATTAAAGCAAGGCGTCTTGGCGTGCCCAAAGACAGACTGAAG
AAATTTCCAGAATTGAAATTCAAATATGTGGAAGAGGAGCAGCCCGAGGATTTTTTATC
CCCTATGTCTGGTCTCTTGTCTACAACCTCAGCAGTCGGCTGTACTGGAATCCACAGGAC
ATCCAGCTGTTCCACATGGATTCCGACTGA
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Clone variation with respect to AK091256.1

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AK091256 unedited</p> <pre>TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCCATCCGTCCGCGGG TCCGTGGAGCTGGAGCAGATCCCCCAGCCGGCTGAGACAGGTTGTCTTTTGAAATGCAG GTTTAAGGACAAATTATCTGCTTAAGCTAGAAGATGGGATCGAATAGCAGCAGAATCGGC GATCTTCTAAAAATGAGTACTTGAAAAAGTTATCAGGCACGGAATCTATCTCTGAGAAT GACCCGTTCTGGAATCAGCTTCTCTCATTTTCTTCCCTGCACCAACTAGCAGTAGTGAG TTGAAACTCTTGGAGGAAGCAACCATTTTCAGTCTGCAGGTCATTAGTTGAAAACAATCCT CGAACAGGAAATCTTGGTGCACATAATTAAGGTCTTCTTTCTAGAACCAAGAATAAAA CTTTCAGCAGAATGTCAGAACCACATCTTCATTTGGCAGACACACAATGCTTTGTTTATT ATTTGCTGTTTGTGAAAGTGTTTCATCTGTCAGATGTCAGAGGAGGAATTACAATTCAT TTACTTATGAAGAAAAATCTCCTGCNATTTACAGNTTCTGACTCAGAAGATCTTTTGGA AGAATTGCTGCGCTGTTTGAAGCNTTGAACCCTGATATCCCTCTAAAAATTACTTAT GAAATATCNTACAAGCTATTCACCCCGGTTGCGTTCCTTTCTGCCACTGTTGCAACC CCAATTCCTCTCTCCCCCTTCTCCCCCTCCCCGCTCCAAATCCCCCTACCCCC GTGCCAATTCTCCCCACGCTCCCCCTTCTCTATACTCCACCCCGCCCCCAGGCC CCTCCCCCGCCCTCCCCCCCCCGTCCCTCCACCTTCCCTCTCCCCCTCTCG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AK091256 unedited</p> <pre>TGGGTGTTTCATCTATTTTGTGTGATTATCCTCCCCTTTTGGCAACTATCTACGCT GTTTTATCTATTGCCAAGTACCAATCTCCAATCAAAGTGTGTGAGGAAAACACAC TCGTGCAATCCTCTTAAACAGAAGATACACCAAGTAACCTGTCTGTCTACTTCTGTTACC CAGAAATAAAAGAACTTGAAGGGCTGCTTGGCTGGAGGGTCCGGTGGGAGAGCATCCT GCCCTCAGTCGGAATCCATGGTGAACAGCTGGATGTCCTGTGGATTCCAGTACAGCCGA CTGCTGAGTTGTAGACAAGAGACAGACATAGGGGATAAAAAACTCCTCGGGCTGCTCCT CTTCCACATATTTGAATTTCAATTTCTGGAAATTTCTTCAGTCTGTCTTTGGGCAGCGAA CGACGCCCTTGCTTAATGATTTCCAGGACCCGTTCCACTGACAGCTCAGCTCCAGCTTGCA GCAACCTTGAGCTAAAGAAGGAGATCACCAGATCAATATTTGCAATATATCCTGAAATG AAGGATGAGTTCGAAATGTTCAAAGAGATCGCGTTTGTAAAGCAGGGCGTATACCAAGT TTGCGTGTGGTGAAGGGAATTTGTACGCAGGAGTTGATGATCTCTACATCATTGCAAT CACTTTTCAATGACATTTAGGTCCTTGTGCATAATCTGGCACAGGGACATCATTACAAC TCCCCGAACCCTCTCAGGACTGTGCCGCTTGTCCAACACCTTGGTGTGTTTTTCA GACAGCAAAGAAAATAACCTGATGATCCTCTGGGCAACATACTGATGGCAAAGACCGAAA CTGCGCCGACTAATTTGCTATACTGCACAAAATTGGGGGAAGGCCCTTGTCTCGGTGC TAGCACTGTTGATCGCAAGGGCCCTTTACCCTCCGGATCACGAGACTTCTCCAGGGAA CTTCCCGTAACACTCGTTTGTATACCACAAATATTCTATA</pre>
Restriction Sites:	NotI-NotI
ACCN:	AK091256
Insert Size:	2560 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:

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: [AK091256.1](#), [BAG52319.1](#)

RefSeq Size: 2595 bp

RefSeq ORF: 2595 bp

Locus ID: 54808

Cytogenetics: 18q21.1

Gene Summary: This gene encodes a protein which regulates Golgi-associated secretory pathways that are essential to endochondral bone formation during early development. This gene is also believed to play a role in early brain development. This gene is widely expressed in embryos and is particularly abundant in chondrocytes and brain tissues. It encodes a peripheral membrane protein which shuttles between the cytosol and Golgi complex. Mutations in this gene are associated with two types of recessive osteochondrodysplasia: Dyggve-Melchior-Clausen (DMC) dysplasia and Smith-McCort (SMC) dysplasia. [provided by RefSeq, Jun 2017]