

## Product datasheet for **SC114033**

### Dymeclin (DYM) (NM\_017653) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dymeclin (DYM) (NM_017653) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYM
Synonyms:	DMC; SMC
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_017653, the custom clone sequence may differ by one or more nucleotides

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ATGGGATCGAATAGCAGCAGAATCGGCGATCTTCCTAAAAATGAGTACTTGAAAAAGTTATCAGGCACGG
AATCTATCTGAGAATGACCCGTTCTGGAATCAGCTTCTCTCATTTTCTTTCCCTGCACCAACTAGCAG
TAGTGAGTTGAAACTCTGGAGGAAGCAACCATTTCAGTCTGCAGGTCATTAGTTGAAAACAATCCTCGA
ACAGGAAATCTTGGTGCCTAATTAAGGTCTTCCTTTCTAGAACCAAGAAGCTAAAACTTTCAGCAGAAT
GTCAGAACCACATCTTCATTTGGCAGACACACAATGCTTTGTTTTATTATTGCTGTTTGCTGAAAGTGTT
CATCTGTCAGATGTCAGAGGAGGAATTACAACCTCATTCTTACTTATGAAGAAAAATCTCCTGGCAATTAC
AGTTCTGACTCAGAAGATCTTTTGAAGAATTGCTGTGCTGTTTGATGCAGTTGATCACTGATATCCAC
TCTTAGATATTACATATGAAATATCAGTAGAAGCTATATCAACAATGGTTGTTTTCTTTCTGCCAACT
CTTCCACAAAAGAGTTTTGCGACAGAGCATCAGCCACAAGTATTTGATGCGAGGTCATGTCTTCCATAC
ACCAGCAAACCTTGAAGACCTTATTATATAACTTTATCAGACAAGAAAAGCCACCTCCTCCAGGGGCC
ATGTTTTCCCTCAGCAGTCGGATGGGGGAGGACTGCTTTATGGACTTGCATCAGGAGTAGCAACAGGACT
CTGGACTGTCTTACACTAGGTGGTGTGGGCAGCAAAGCGGCTGCCTCTCCAGAGCTTTCTTCCCCTCTG
GCCAACCCAGAGTCTCCTGCTTCTGCTGGTGTGGCCAATCTGACAGATGCCTCAGATGCGCCAAACCCCT
ACAGACAAGCCATTATGCTCTTCAAGAACACACAAGATAGCAGTCCTTTCCCCTCATCAATTCCACATGC
CTTCCAGATCAACTTTAATAGTTGTACACAGCTCTTTGTGAACAGCAGACATCTGATCAAGCAACTCTC
CTCTTGATACCTTGTCCATCAAAATAGTAATATTAGAACATACATGTTGGCTCGCACAGATATGGAAA
ATCTTGTTTTACCAATCTTGAGATTCTGTATCATGTTGAAGAAAGGAATTCACACCATGTGTATATGGC
CCTTATAATATTGTTGATCCTTACGGAAGATGATGGCTTCAACAGATCCATTATGAAGTGATAAAAA
AATATTACTTGGTATTCAGAACGAGTTTTAACTGAAATCTCCTTGGGGAGTCTCCTGATCCTGGTGTAA
TAAGAACCATTCAATACAACATGACTAGGACACGAGACAAGTACCTTACACAAAATGTTTTGGCAGCTTT
AGCAAATATGTCGGCACAGTTTCTGTTCTCTCCATCAGTATGCTGCCAGAGGATCATCAGTTTTTTTTCT
TTGCTGTCTAAAAAACACAACAAAGTTCTGGAACAAGCCACACAGTCCTTGAGAGGTTGCTGAGTTCTA
ATGATGTTCTCTACCAGATTATGCACAAGACCTAAATGTCATTGAAGAAGTGATTGCAATGATGTTAGA
GATCATCAACTCCTGCCTGACAAATCCCTTACCACAACCCAAACTGGTATACGCCCTGCTTTACAAA
CGCGATCTCTTTGAACAATTTGAACTCATCTTCAATTCAGGATATAATGCAAAATATTGATCTGGTGA
TCTCCTCTTTAGCTCAAGGTTGCTGCAAGCTGGAGCTGAGCTGTGAGTGAACGGGCTCGGAAATCAT
TAAGCAAGGCGTGGTGGCTGCCAAAGACAGACTGAAGAAATTTCCAGAATTGAAATCAAAATATGTG
GAAGAGGAGCAGCCCAGGAGTTTTTTATCCCCTATGCTCTGGTCTTGTCTACAACCTCAGCAGTCGGCC
TGTAAGGAAATCCACAGGACATCCAGCTGTTCCACATGGATTCCGACTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017653 unedited

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GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGACGCGGCCCGGGCT
GGAGCCGAGCCGGGGCCGAGCTGCAGGCCGACCGGAGCCGGATCTGTACCCGCTGAGAC
GTGGAACATGGAGGCCCTGAGCCGGTGTGCGCCACCTGGGCTGCGCGGGCAGCAGCGACT
TCTCCTGACCCCTCTGCCACCCTCCCATCCGTCGCGGGTCCGTGGAGCTGGAGCAGATC
CCCAGCCGCTGAGACAGGTTGTCTTTTGGAAATGCAGGTTTAAAGGACAAATTATCTGC
TTAAGCTAGAAGATGGGATCGAATAGCAGCAGAATCGGCGATCTTCTAAAAATGAGTAC
TTGAAAAAGTTATCAGGCACGGAATCTATCTCTGAGAATGACCCGTTCTGGAATCAGCTT
CTCTCATTTTCTTTCCCTGCACCAACTAGCAGTAGTGAGTTGAAACTCTTGGAGGAAGCA
ACCATTTAGTCTGCAGGTCATTAGTTGAAAACAATCCTCGAACAGGAAATCTTGGTGCA
CTAATTAAGTCTTCTTTCTAGAACCAAGAAGCTAAAACTTTCAGCAGAATGTCAGAAC
CACATCTTCAATTTGGCAGACACACAATGCTTTGTTTTATTATTGCTGTTTGCTGAAAGTG
TTCATCTGTCAGATGTCAGAGGAGGAATTACAACCTCATTNTACTTATGAAGAAAAATCT
CCTGGCAATTACAGTTCTGACTCAGAAGATCTTTTGAAGAATTGCTGTGCTGTNTGATG
CAGNTGATCACTGATATTNCACTCTTAGATATTACATATGAAATATCAGTAGAAGCTATA
TCAACATGGGTTGNTTNCCTTTTCTGCCACTCTTACCAAGAAGTTTTGCGACAGAGC
ATCANCC
    
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**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]

Transcript Variant: This variant (1) encodes the canonical dymeclin protein of 669 amino acids (isoform 1).