

# BAHD acyltransferase DCR (DCR), Recombinant Protein

Cat RP00054

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg  
(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1  
mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)  
Species Arabidopsis thaliana (Mouse-ear cress)

## Full Product Name

Recombinant Arabidopsis thaliana BAHD acyltransferase DCR (DCR)

## Product Gene Name

DCR recombinant protein

## Product Synonym Gene Name

DCR

## Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

## Sequence

MKIKIMSKTH VKPTKPVLGK KQFHLTTFDL PYLAFYYNQK FLLYKFQNLL DLEEPTFQNE VVENLKDGLG  
LVLEDFYQLA GKLAKDDEGV FRVEYDAEDS EINGVEFSVA HAADVTVDDL TAEDGTAKFK ELVPYNGILN  
LEGLSRPLLA VQVTKLKDGL AMGLAFNHAV LDGTSTWHFM SSWAEICRGA QSISTQPFLD RSKARDTRVK  
LDLTAPKDPN ETSNGEDAAN PTVEPPQLVE KIFRFSDFAV HTIKSRANSV IPSDSSKPFS TFQSLTSHIW  
RHVTLARGLK PEDITIFTVF ADCRRRVDP MPEEYFGNLI QAIFTGTAAG LLAHGPEFG ASVIQKAI  
HDASVIDARN DEWEKSPKIF QFKDAGVNCV AVGSSPRFRV YEVDGFGFKP ETVRSGSNNR FNGMMYLYQG  
KAGGISIDVE ITLEASVMEK LVKSKEFLLS EEEEEDDGKK LTNGNGHVNG NNGYVNGNG NGFV

## Sequence Positions

1-484, Full length protein

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

53,514 Da

## Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week.  
Repeated freezing and thawing is not recommended.

## Protein Family

BAHD acyltransferase

## NCBI Accession #

NP\_197782.1

## NCBI GI #

15237858

## NCBI GenBank Nucleotide #

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

# BAHD acyltransferase DCR (DCR), Recombinant Protein

Cat RP00054

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1

mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

832459

## NCBI Official Full Name

HXXXD-type acyl-transferase family protein

## NCBI Official Symbol

PEL3

## NCBI Official Synonym Symbols

DCR; DEFECTIVE IN CUTICULAR RIDGES; EMB3009; EMBRYO DEFECTIVE 3009; MRO11.2; MRO11\_2; PERMEABLE LEAVES3

## NCBI Protein Information

HXXXD-type acyl-transferase family protein

## NCBI Summary

Encodes PERMEABLE LEAVES3 (PEL3), a putative acyl-transferase. Mutation in this locus results in altered trichome phenotype (trichomes become tangled during leaf expansion). Additional phenotype includes altered cuticle layer.

## UniProt Gene Name

DCR

## UniProt Synonym Gene Names

PEL3

## UniProt Protein Name

BAHD acyltransferase DCR

## UniProt Synonym Protein Names

Protein DEFECTIVE IN CUTICULAR RIDGES; Protein PERMEABLE LEAVES 3

## UniProt Primary Accession #

Q9FF86

## UniProt Related Accession #

Q9FF86

## UniProt Comments

Required for incorporation of 9(10),16-dihydroxy-hexadecanoic acid into cutin.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY