

## Recombinant Enzyme Product Specification Sheet

<b>Cat. No.:</b>	PRO-E0124
<b>LOT:</b>	2008-0124
<b>Activity:</b>	$\beta$ -Mannosidase
<b>Synonyms:</b>	Mannanase, mannanase
<b>Nomenclature:</b>	Mannosidase, GH2
<b>Source organism:</b>	<i>Bacteroides fragilis</i> NCTC 9343
<b>Enzyme Commission No.:</b>	<a href="#">3.2.1.25</a>
<b>Activity:</b>	-
<b>Specific activity:</b>	-
<b>Purity:</b>	-
<b>Form and storage:</b>	-
<b>pH optimum:</b>	-
<b>Temperature optimum:</b>	-
<b>[Protein]:</b>	-
<b>Sequence length:</b>	837 amino acids ( <a href="#">view sequence</a> )
<b>Accession No.:</b>	<a href="#">Q5LEE2</a>
<b>Molecular weight:</b>	98890.2 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
<b>Biological function:</b>	Hydrolysis of terminal, non-reducing $\beta$ -D-mannose residues in $\beta$ -D-mannosides
<b>Potential application(s):</b>	<a href="#">Biomass conversion</a> , <a href="#">carbohydrate research</a>
<b>Comments:</b>	-
<b>Usage:</b>	-
<b>Assay:</b>	-

**NOTE:** this product is currently under development. If you wish to prioritise the production of this enzyme, please follow [this link](#)

### Primary sequence:

NQDTS D V L M L N D D W S F S Q V G T E K W L P A T V P G T V H Q D L I H H K L L P D P F Y G T N E K K I Q W V E D E D W E Y K T C F V V T E E Q  
L K R D A A Q L F F E G L D T Y A D V Y L N G S L V L K S D N M F V G Y A V P V K Q V L R K G E N L L H V Y F H S P I K Q T L P Q W S S N G F N Y P A  
D N D H H E K R L S V F T R K A P Y S Y G W D W G I R M V T S G I W R P V T L R F Y D V A T I A D Y H V K Q L S L T D Q V A K L S N E L E I N S I S E  
K E K S A E V L I S Y S L Q G G K E V T V K K N V T L K P G L N K I H I P L D I Q N P V R W M P N G W G E P H L Y D F S A Q V I C D G K T I A S R Q H  
R I G L R T I R V V N E K D K E G E S F Y F E V N G I P M F A K G A N Y I P D D A L L P C I T T E R Y R T L F R D M K E A N M N M V R I W G G G T Y E  
D D R F Y D L A D E N G I L V W Q D F M F A C T A Y P S D P T F L K R V E E E A E Y N I K R L R N H A S L A M W C G N N E I L E G L K Y W G W Q K N Y  
T P E V Y E N M F R G Y D K L F R G L L P A K V Q E L D E G R F Y K H S S P Y F A N W G R P E S W G I G D S H N W G V W Y G K K T F E S L D T D L P R  
F M S E F G F Q S F P E M K T I A T F A A P E D Y Q I E S E V M N G H Q K S S I G N D L I R T Y M E R D Y I V P E K F E D F V Y I G L V L Q G H G M R  
H G M E A H R R N R P Y C M G T L Y W Q L N D S W P V V S W S S I D Y Y G N W K A L H Y Q A K R A F A P L L V N A I Q E G D S L N I Y L I S D M L E K  
Q S Q L T L E M K V I D F N G K T L D K E V I K A V E V P M N T S S C I V R K P L D T W V N P E Q R K S S F L L L S L K D K S G R K V A E E V Y F F D  
K T K N L E L P Q T A I S M K V K Q L D G K C E L T L S S P K L A K D V F V Q I P V Q G A R F T D N F F D L L P G E N K K I T I T S P E I K K G E S L  
N I T V K H V R D T Y N

### Literature:

1. Cerdeno-Tarraga *et al.* (2005) *Science* **307**, 1463-1465