

# Recombinant Full Length Human AMTN Protein, GST-tagged

**Cat. No.** AMTN-1317HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human AMTN full-length ORF ( NP_997722.1, 1 a.a. - 209 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	209 amino acids
<b>Description</b>	The mineralized portions of teeth, the dentin and enamel, are formed by mesenchyme-derived odontoblasts and epithelium-derived ameloblasts, respectively. As ameloblasts differentiate, they deposit specific proteins necessary for enamel formation, including amelogenin (AMELX; MIM 300391), enamelin (ENAM; MIM 606585), and ameloblastin (AMBN; MIM 601259), in the organic enamel matrix. Amelotin is specifically expressed in maturation-stage ameloblasts (Iwasaki et al., 2005 [PubMed 16304441]).[supplied by OMIM, Mar 2008]
<b>Molecular Mass</b>	48 kDa
<b>AA Sequence</b>	MRSTILLFCL LGSTRSLPQL KPALGLPPTK LAPDQGTLPN QQQSNQVFPS LSLIPLTQML TLGPDHLHLLN PAAGMTPGTQ THPLTLGGLN VQQQLHPHVL PIFVTQLGAQ GTILSSEELP QIFTSLIHS LFPGGILPTS QAGANPDVQD GSLPAGGAGV NPATQGTGTPAG RLPTPSGTDG DFAVTTTAPGI QRSTHAIEEA TTESANGIQ

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	AMTN amelotin [ Homo sapiens ]
<b>Official Symbol</b>	AMTN
<b>Synonyms</b>	UNQ689
<b>Gene ID</b>	401138
<b>mRNA Refseq</b>	NM_212557.2
<b>Protein Refseq</b>	NP_997722.1
<b>MIM</b>	610912
<b>UniProt ID</b>	Q6UX39

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