

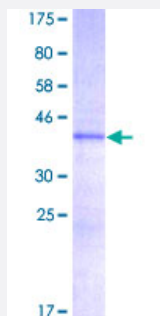
Full-Length

# HMGA1 (Human) Recombinant Protein (P01)

Catalog # H00003159-P01

Size 25 ug, 10 ug

## Applications



## Specification

Product Description	Human HMGA1 full-length ORF ( AAH04924.1, 1 a.a. - 96 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSESSSKSSQPLASKQEKGTEKRGRGRPRKQPPKEPSEVPTPKRPRGRPKGSKNKGAAKTR KTTTTPGRKPRGRPKKLEKEEEEGISQESSEEEQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.19
Preparation Method	<a href="#">in vitro wheat germ expression system</a>
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — HMGA1

Entrez GeneID	<a href="#">3159</a>
GeneBank Accession#	<a href="#">BC004924.1</a>
Protein Accession#	<a href="#">AAH04924.1</a>
Gene Name	HMGA1
Gene Alias	HMG-R, HMGA1A, HMG1Y, MGC12816, MGC4242, MGC4854
Gene Description	high mobility group AT-hook 1
Omim ID	<a href="#">600701</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	This gene encodes a non-histone protein involved in many cellular processes, including regulation of inducible gene transcription, integration of retroviruses into chromosomes, and the metastatic progression of cancer cells. The encoded protein preferentially binds to the minor groove of A+T-rich regions in double-stranded DNA. It has little secondary structure in solution but assumes distinct conformations when bound to substrates such as DNA or other proteins. The encoded protein is frequently acetylated and is found in the nucleus. At least seven transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000016222 OTTHUMP00000016223 OTTHUMP00000016224 OTTHUMP00000039618 high-mobility group (nonhistone chromosomal) protein isoforms I and Y nonhistone chromosomal high-mobility group protein HMG-I/HMG-Y

## Publication Reference

- [Overexpression of HMGA1 deregulates tumor growth via cdc25A and alters migration/invasion through a cdc25A-independent pathway in medulloblastoma.](#)

Lau KM, Chan QK, Pang JC, Ma FM, Li KK, Yeung WW, Cheng AS, Feng H, Chung NY, Li HM, Zhou L, Wang Y, Mao Y, Ng HK.  
Acta Neuropathologica 2012 Jan; 123(4):553.

Application: Electrophoretic mobility shift assay (EMSA), Human, Biotin-labeled probe

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Tobacco Use Disorder](#)