

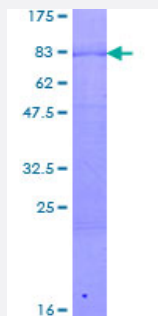
Full-Length

# ZNF278 (Human) Recombinant Protein (P01)

Catalog # H00023598-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human ZNF278 full-length ORF ( NP\_114440.1, 1 a.a. - 537 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MERVNDASCGPSGCYTYQVSRHSTEMLHNLNQQRKNGGRFCDVLLRVGDESFPAAHRAVLAACS  
EYFESVFSAQLGDGGAADGGPADVGGATAAPGGGAGGSRELEMHTISSKVFGDILDFAYTSRIV  
RLESFPELMTAAKFLLMRSVIEICQEVIKQSNVQILVPPARADIMLFRPPGTSDLGFPLDMTNGAAL  
AANSNGIAGSMQPEEEAARAAGAAIAGQASLPVLPVDRPLPMVAGPLSPQLLTSPFPSVASSAP  
PLTGKRGRGRPRKANLLDSMFGSPGGLREAGILPCGLCGKVFTDANRLRQHEAQHGVTSLQLGY  
DLPPPRLGENGLPISEDPDGPRKRSRTRKQVACEICGKIFRDVYHLNRHKLSSHSGEKPYSCPVCG  
LRFKRKDRMSYHVRSHDGSVGKPYICQSCGKGFSRPDHLNGHIKQVHTSERPHKCQVWVGSSS  
GLPPLEPLPSDLPSWDFAPALWRSSHSVPDTAFSLSLKKSFPALLENLGAHSSNTLFCPAPPG  
YLRQGWTTPEGSRAFTQWPVG

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

84

### Interspecies Antigen Sequence

Mouse (98); Rat (99)

### Preparation Method

[in vitro wheat germ expression system](#)

### 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 — PATZ1

Entrez GeneID	<a href="#">23598</a>
GeneBank Accession#	<a href="#">NM_032051.1</a>
Protein Accession#	<a href="#">NP_114440.1</a>
Gene Name	PATZ1
Gene Alias	MAZR, PATZ, RIAZ, ZBTB19, ZNF278, ZSG, dJ400N23
Gene Description	POZ (BTB) and AT hook containing zinc finger 1
Omim ID	<a href="#">605165</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

The protein encoded by this gene contains an A-T hook DNA binding motif which usually binds to other DNA binding structures to play an important role in chromatin modeling and transcription regulation. Its Poz domain is thought to function as a site for protein-protein interaction and is required for transcriptional repression, and the zinc-fingers comprise the DNA binding domain. Since the encoded protein has typical features of a transcription factor, it is postulated to be a repressor of gene expression. In small round cell sarcoma, this gene is fused to EWS by a small inversion of 22q, then the hybrid is thought to be translocated (t(1;22)(p36.1;q12). The rearrangement of chromosome 22 involves intron 8 of EWS and exon 1 of this gene creating a chimeric sequence containing the transactivation domain of EWS fused to zinc finger domain of this protein. This is a distinct example of an intra-chromosomal rearrangement of chromosome 22. Four alternatively spliced transcript variants are described for this gene. [provided by RefSeq]

**Other Designations**

BTB-POZ domain zinc finger transcription factor|MAZ-related factor|POZ-AT hook-zinc finger protein|zinc finger protein 278

**Disease**

- [Azoospermia](#)
- [Genetic Predisposition to Disease](#)