

## Product datasheet for **AR51794PU-S**

### **RASD2 / TEM2 (1-266, His-tag) Human Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	RASD2 / TEM2 (1-266, His-tag) human recombinant protein, 0.1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MGSMMKTLSS GNCTLSVPAK NSYRMVLGA SRVGKSSIVS RFLNGRFEDQ YPTIEDFHR KVNIRGDMY QLDILDTSGN HPPFAMRRLS ILTGDFILV FSLDNRESFD EVKRLQKQIL EVKSLKNT KEAAELPMVI CGNKNDHGEL CRQVPTTEAE LLVSGDENCA YFEVSAKKNT NVDEMFLVLF SMAKLPHEMS PALHRKISVQ YGDAFHPRPF CMRRVKEMDA YGMVSPFARR PSVNSDLKYI KAKVLRGQA RERDKCTIQ
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	32.8 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>85% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: Liquid, In 20 mM Tris-HCl (pH 8.0) containing 10% glycerol
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human RASD2, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_055125</a>
<b>Locus ID:</b>	23551
<b>UniProt ID:</b>	<a href="#">Q96D21</a>
<b>Cytogenetics:</b>	22q12.3
<b>Synonyms:</b>	Rhes; TEM2



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**Summary:**

This gene belongs to the Ras superfamily of small GTPases and is enriched in the striatum. The encoded protein functions as an E3 ligase for attachment of small ubiquitin-like modifier (SUMO). This protein also binds to mutant huntingtin (mHtt), the protein mutated in Huntington disease (HD). Sumoylation of mHTT by this protein may cause degeneration of the striatum. The protein functions as an activator of mechanistic target of rapamycin 1 (mTOR1), which in turn plays a role in myelination, axon growth and regeneration. Reduced levels of mRNA expressed by this gene were found in HD patients. [provided by RefSeq, Jan 2016]

**Protein Families:**

Druggable Genome

**Product images:**