

## Product datasheet for TP309010

### Hairless (HR) (NM\_005144) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human hairless homolog (mouse) (HR), transcript variant 1, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC209010 protein sequence  
Red=Cloning site Green=Tags(s)

MESTPSFLKGTPTWEKTAPENGIVRQEPGSPPRDGLHHGPLCLGEPAPFWRGVLSTPDSWLPPGFPQGPK  
DMLPLVEGEGPQNGERKVNWLGSKEGLRWKEAMLTHPLAFCGPACPPRCGPLMPEHSGGHLKSDPVAFRP  
WHCPFLETKILERAPFWVPTCLPPYLVSGLPPEHPCDWPLTPHPWVYSGGQPKVPSAFSLGSKGFYKDK  
PSIPRLAKEPLAAAEPGLFGLNSGGHLQRAGEAERPSLHQRDGEMGAGRQONPCPLFLGQPDTPVWTSWP  
ACPPGLVHTLGNVWAGPGDGNLGYQLGPPATPRCPSPEPPVTQRGCCSSYPPTKGGGLGPCGKCQEGLEG  
GASGASEPSEEVNKASGPRACPPSHHTKLKKTWLTRHSEQFECPRGCPEVEERPVARLRALKRAGSPEVQ  
GAMGSPAPKRPPDPFPGTAEQGAGGWQEVDRDTSIGNKDVDSGQHDEQKGPQDGGASLQDPLQDIPCLAL  
PAKLAQCQSCAQAAEGGGHACHSQVRRSPLGGELQEEEDTATNSSSEEGPGSGPDSRLSTGLAKHLLS  
GLGDRLCRLRREREALAWAQREGQGPVATEDSPGIPRCCSRCHHGLFNTHWRCPRCSHRLCVACGRVAG  
TGRAREKAGFQEQSAEECTQEAGHAACSLMLTQFVSSQALAEALSTAMHQVWVKFDIRGHCPQADARVWA  
PGDAGQQKESTQKTPPTPQPSCNGDTHRTKSIKEETPDSAETPAEDRAGRGLPCPSLCELLASTAVKLC  
LGHHERIHMAFAPVTPALPSDDRITNILDSIIAQVVERKIQEKALGPGLRAGPGLRKLGLPLSPVRRLP  
PPGALLWLQEPQPCRRGFHLFQEHWRQGPVLSVGIQRTLQGNLWGTEALGALGGQVQALSPLGPPQPS  
SLGSTTFWEGFSWPELRPKSDEGSVLLLHRALGDEDTSRVENLAASLPLPEYCALHGKLNLASYLPPGLA  
LRPLEPQLWAAYGVSPHRGHLGTKNLCVEVADLVLSILVHADTPLPAWHRAQKDFLSGLDGEGLWSPGSQV  
STVWHVFRAQDAQRIRRFQMVCAPAGAGALEPGAPGSCYLDAGLRRRLREEWGVSCWTLQAPGEAVLVP  
AGAPHVQVQLVSTVSVTQHFLSPETSALSAQLCHQGPSLPPDCHLLYAQMDWAVFQAVKVAVGTLQEAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 127.3 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

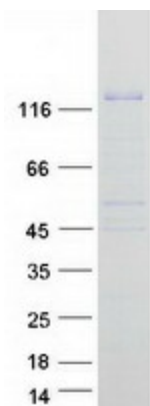
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005135</a>
<b>Locus ID:</b>	55806
<b>UniProt ID:</b>	<a href="#">O43593</a>
<b>RefSeq Size:</b>	5528
<b>Cytogenetics:</b>	8p21.3
<b>RefSeq ORF:</b>	3567
<b>Synonyms:</b>	ALUNC; AU; HSA277165; HYPT4; MUHH; MUHH1
<b>Summary:</b>	This gene encodes a protein that is involved in hair growth. This protein functions as a transcriptional corepressor of multiple nuclear receptors, including thyroid hormone receptor, the retinoic acid receptor-related orphan receptors and the vitamin D receptors, and it interacts with histone deacetylases. The translation of this protein is modulated by a regulatory open reading frame (ORF) that exists upstream of the primary ORF. Mutations in this upstream ORF cause Marie Unna hereditary hypotrichosis (MUHH), an autosomal dominant form of genetic hair loss. Mutations in this gene also cause autosomal recessive congenital alopecia and atrichia with papular lesions, other diseases resulting in hair loss. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2014]
<b>Protein Families:</b>	Druggable Genome, Transcription Factors

### Product images:



Coomassie blue staining of purified HR protein (Cat# TP309010). The protein was produced from HEK293T cells transfected with HR cDNA clone (Cat# [RC209010]) using MegaTran 2.0 (Cat# [TT210002]).