

## Product datasheet for PH309010

### Hairless (HR) (NM\_005144) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HR MS Standard C13 and N15-labeled recombinant protein (NP_005135)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209010
Predicted MW:	127.5 kDa
Protein Sequence:	>RC209010 protein sequence Red=Cloning site Green=Tags(s)

MESTPSFLKGTPTWEKTAPENGIVRQEPGSPRRDGLHHGPLCLGEPAPFWRGVLSTPDSWLPFGFPQGPK  
DMLPLVEGEGPQNGERKVNWLGSKEGLRWKEAMLTHPLAFCGPACPPRCGPLMPEHSGGHLKSDPVAFRP  
WHCPFLLETKILERAPFWVPTCLPPYLVSGLPPEHPCDWPLTPHPWVYSGGQPKVPSAFSLGSKGFYYKD  
PSIPRLAKEPLAAEPGLFGLNSGGHLQRAGEAERPSLHQRDGEMGAGRQNPCPLFLGQPDTPVWTSWP  
ACPPGLVHTLGNVWAGPGDGNLGYQLGPPATPRCPSPEPPVTQRGCCSSYPPTKGGGLGPCGKCQEGLEG  
GASGASEPSEEVNKASGPRACPPSHHTKLKKTWLTRHSEQFECPRGCPEVEERPVARLRALKRAGSPEVQ  
GAMGSPAPKRPPDPFPGTAEQGAGGWQEVDRDTSIGNKDVDSGQHDEQKGPQDQASLQDPGLQDIPCLAL  
PAKLAQCQSCAQAAEGGGHACHSQVRRSPLGGELQEEEDTATNSSSEEGPGSGPDSRLSTGLAKHLLS  
GLGDRLCRLRREREALAWAQREGQGPVTEDESPGIPRCCSRCHHGLFNTHWRCPRCASHRLCVACGRVAG  
TGRAREKAGFQEQSAEECTQEAGHAACSLMLTQFVSSQALAEELSTAMHQVWVKFDIRGHCPQADARVWA  
PGDAGQQKESTQKTPPTQPSCNGDTHRTKSIKEETPDSAETPAEDRAGRGLPCPSLCELLASTAVKLC  
LGHRIHMAFAPVTPALPSDDRI TNILDSIIAQVVERKIQEKALGPGLRAGPGLRKGLPLSPVRRLP  
PPGALLWLQEPQPCRRGFHLFQEHWRQGPVLSVGIQRTLQGNLWGTEALGALGGQVQALSPLGPPQPS  
SLGSTTFWEGFSWPELRPKSDEGSVLLHHRALGDEDTSRVENLAASLPLPEYCALHGKLNLAASYLPPGLA  
LRPLEPQLWAAYGVSPhRGHLGKTNLCVEVADLVSILVHADTPLPAWHRAQKDFLSGLDGEGLWSPGSQV  
STVWHVFRAQDAQRIRRFLLQMVCPAGAGALEPGAPGSCYLDAGLRRRLREEWGVSCWTLQAPGEAVLVP  
AGAPHQVQGLVSTVSVTQHFLSPETSALSAQLCHQGPSLPPDCHLLYAQMDWAVFQAVKVAVGTLQEAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

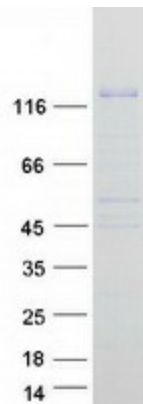
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_005135</a>
<b>RefSeq Size:</b>	5528
<b>RefSeq ORF:</b>	3567
<b>Synonyms:</b>	ALUNC; AU; HSA277165; HYPT4; MUHH; MUHH1
<b>Locus ID:</b>	55806
<b>UniProt ID:</b>	<a href="#">O43593</a>
<b>Cytogenetics:</b>	8p21.3
<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]).