

## Product datasheet for RN202331

### Hr (NM\_024364) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hr (NM_024364) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN202331 representing NM_024364 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAGTATGCCAGCTTCTGAAGGACACCCAGCCTGGGAGAAGACTGCCCTGTGAACGGCATTG  
TGGGACAGGAGCCTGGTACCTCCCCGACAGGATGGCTTGCACCATGGGGCACTGTGCCTAGGAGAACCTGT  
TCCCTTTTGGAGGGGTGTCTGAGCGCCCCAGACTCCTGGCTCCCTCCTGGCTTCTCCAAGGCCCAAG  
GACACACTCTCAGTGGTGGAGGGTGAGGGTTCTCGGAATGGGGAGAGGAAAGCCAACCTGGCTGGTAGCA  
AGGAGGGACTACGCTGGAAGGAAGCGATGCTGGCCCATCCACTGGCCTTCTGTGGGCCAGCATGCCACC  
TCGCTATGGCCCCCTGATACCTGAGCATAGCAGTGGCCATCCCAAGAGTGACCCTGTGGCCTTCCGGCCC  
TTGCACTGCCCTTCTGCTGGAGACCAAGATTCTAGAGCGAGCTCCCTTCTGGGTTCTACCTGCTTGC  
CTCCCTACCTGATGTCCAGCCTGCCTCCAGAGCGTTCGTATGACTGGCCTTTGGCCCAAGCCCCTGGGT  
ATACTCTGGGAGCCAGCCAAAAGTGCCTCTGCCTTCAGCTTAGGCAGCAAGGGCTTTTACCACAAGGAT  
CCAAACATCCTCAGGCCAGCAAAGGAGCCCTTGGCAGCGTCAGAGTCTGGGATGTTGGGCTTAGCTCCTG  
GAGGGCATCTCCAGCAAGCCTGCGATGCAGAAGGCCCTCGCTTACCAGAGGGATGGGAGACAGGAGC  
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TCTTGCCCCAGGCCTGGTTCACACTCTCGGTAACGTTTGGGCTGGGCCAGGAAGTAACAGCTTTGGGT  
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CTCATCCCATCTGCCTGCCAGAGAGGGTATCCTGGCCCTTGTAGGAAATGTCAGGATAGCCAGAGGGA  
AGTAGCAGTGGGCAGGGGAATCCAGTGAAGAAAGAAACAAGGCTGGCTCCAGGGCCTCTCTCCAAGCC  
ATCACACCAAGCTGAAAAAGACCTGGCTCACACGCCACTCGGAACAGTTCGAGTGCCAGGTGGCTGTCC  
TGGGAAGGGAGAGAGCCAGCCACTGGGCTCCGGGCACTCAAGAGGGCAGGCAGTCCAGAGGTCCAGGGA  
GCAAGGGGCCCGGCTCCCAAACGCCATCCACACTTTCCAGGTAAGGAGGCAGGGGGCCAGGGCTT  
GGCAGGAGACACCAGAGACATCCACAGGAAGCAAGGCAGAGGCACAGCAACAAGAGGAGCAAGAGGGCC  
CCGAGATGGCAGGATTCGGCTCCGGGAATCCAGACTTGAGGATACATCCTGCCAGCATCACTTAGCAGGT  
GTCACTCAGTGCCCAAGCTGTGTCCAGGAGTGGAGAGTGGAGATACTGACCAGCCACTCCAGAAAT  
CACATAGGTTACCCTGGAAGAGAAGCCGTTGGAGGAGGATTCTGTGCCACTTCTGAGGAAGGAGGAGG



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GTCTAGCCCAGAAGCTTCCATCAACAAGGGCCTAGCCAAGCATCTACTGAGTGGTCTGGGTGACCGACTC
TGCCCGCTGCTGCGGAAGGAGCGGGAAGCCCTCGCTGGGCACAGCGTGAAGGCCAGGGGCCAGCCATGA
CAGAGGACAGCCCAGGCATTCCACACTGCTGCAGCCGTTGCCACCACGGACTCTTCAACACCCACTGGAG
ATGTTCCCACTGTAGCCACCGGCTGTGTGTAGCCTGTGGTCGCATAGCCGGAGCTGGGAAGAACAGGGAG
AAAACAGGCTCTCGGGAGCAGCGCACAGATGACTGTGCCAGGAGGCTGGGCATGCTGCCTGTTCCCTGA
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CACATGGCCTTTGCCCGGTACCCCGGCTCTGCCAGTGATGACCGCATTACCAACATCTGGACAGCA
TTATTGCGCAGGTAGTAGAACGGAAGATCCAAGAGAAAGCCCTGGGGCCAGGCCTTCGAGCAGGGTCAGG
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TGTTAGTATCAGGCATCCAGAAGACATTGAGACTTAGCCTGTGGGAATGGAAGCCCTTGGGACACTTGG
TGGCCAGGTGCAGACACTGACTGCCCTTGGGCCGCCCAACCCACCAGCCTGGACAGCACAGCATTCTGG
AAGGGATTCTCTCATCCTGAGGCAGTCCAAGTTAGATGAGGGCTCTGTCTCTGCTACACCGACCCC
TGGGGGATAAGGACGAGAGCAGGGTGGAGAACCTTGCCTCCAGCCTTCCACTCCCAGAGTACTGTGCCCA
CCAAGGGAAACTCAACCTAGCGTCTACCTCCCCCTGGGTCTCACACTGCATCCACTGGAGCCCCAGCTC
TGGGCAGCCTATGGTGTGAACCTCGACCCGTGGACACCTGGGGACCAAGAACCTATGTGTGGAGGTGTCTG
ACCTAATCAGTATCCTGGTGCATGCTGAGGCACAGCTGCCTCCCTGGTACCGAGCACAGAAAGATTTTCT
CTCAGGCTGGATGGGGAAGGGCTCTGGTCTCCAGGTAGCCAGACCAGCACTGTGTGGCATGTGTCCGA
GCCAGGATGCCAGCGTATCCGTCGCTTTCAGAGTGGTGTGCCAGCTGGAGCAGGAACCTTGGAGC
CTGGTGCCCCAGGCAGCTGCTACTTGGATTAGGGTTGCGACGCAGGTTAAGGGAGGAGTGGGGTGTGAG
CTGCTGGACACTGCTGCAGGCTCCTGGAGAAGCGGTGCTGGTGCCTGCTGGGGCACCCCATCAGGTACAG
GGCTTGGTGGACACAATCAGTGTCACTCAGCACTTTCTGTCTCTGAGACCTCGGCCCTCTCTGCTCAGC
TCTGCCACCAGGGAGCCAGCCTGCCCTGACCATCGTATGCTTTATGCCAGATGGACCGGGCTGTGTT
CCAAGCAGTGAAGGTGGCGGTGGGGACATTACAGGAAGCTAAA TAG

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**ACGGCT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_024364
- Insert Size:** 3546 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_024364.3](#), [NP\\_077340.3](#)

**RefSeq Size:** 5617 bp

**RefSeq ORF:** 3546 bp

**Locus ID:** 60563

**Cytogenetics:** 15p11

**Gene Summary:** 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 in human. [provided by RefSeq, Oct 2014]