

Ref. 30743

Huntington's disease (HD) is a hereditary progressive autosomal dominant neurodegenerative disease characterized by choreatic movements and neuropsychiatric disorders leading to cognitive decline.

HD is caused as a result of a mutation that multiplies the CAG codons encoding the amino acid glutamine in the exon 1 on the short arm of chromosome 4p16.3 in the Huntingtine (HTT) gene.

The number of CAG triplets can vary over a wide range. The disease develops when the number of repetitions exceeds 35.

The longer the CAG repeats, the earlier the onset of disease. In cases of juvenile onset Huntingtine's disease (JHD) the CAG triplets often exceeds 55.



Innoprot

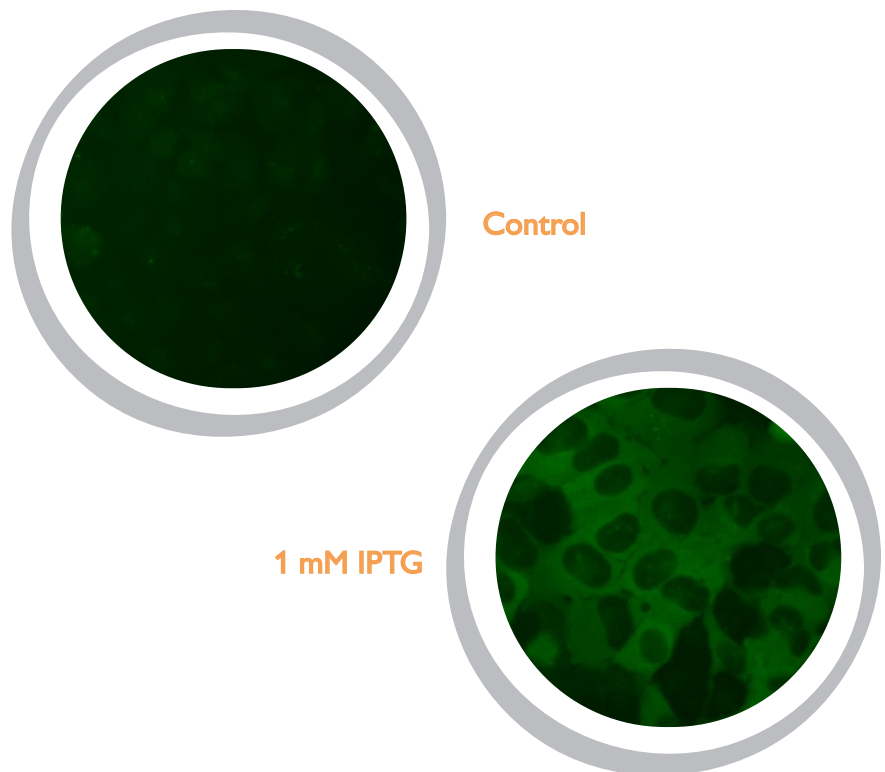
# HUNTINGTON'S DISEASE (HD)

## Green Fluorescent mHTT-92Q (exon 1) inducible CELL LINE

### Background

Mutant HTT (mHTT) fragments have been described to underlie the molecular pathogenesis of Huntington's disease. The toxicity of N-terminal fragments has been studied in human post-mortem tissues and mouse models concluding that the exon 1 of mutant HTT protein is the most pathogenic HTT fragment. Indeed, the aggregates have been only detected by antibodies to the N-terminus of HTT.

Innoprot's green fluorescent mHTT-92Q (exon 1) inducible U2OS cell line stably expresses a green fluorescent tagged mutant fragment of HTT exon 1 containing 92 CAG (glutamine coding) triplets under the Lac operon expression control.



**Product Name:** Green Fluorescent mHTT-92Q (exon 1) inducible cell line

**Product reference:** P30743

**Prot. Official Full Name:** mHTT-92Q (exon 1)

**Host Cell:** U2OS

**Resistance:** Puromycin and Hygromycin

**Quantity:** > 3 × 10<sup>6</sup> cells / vial

**Storage:** Liquid Nitrogen