

Product sheet

**XXXXXXXXL-540 | 300201**

**XXXXXXXXXX XXXXX**

**Description** L-540 is a human T cell leukemia virus type 1 (HTLV-1) tax gene construct. It is a 7.8 kb DNA construct containing the tax gene and the 5' LTR. The tax gene is flanked by the 5' and 3' LTRs. The 5' LTR contains the promoter and enhancer elements. The 3' LTR contains the polyoma virus (PV) origin of replication. The tax gene is transcribed from the 5' LTR and translated into Tax1 and Tax2 proteins. Tax1 is a 86 kDa protein and Tax2 is a 70 kDa protein. Tax1 and Tax2 are involved in the regulation of the HTLV-1 provirus replication and transcription. Tax1 is also involved in the transformation of T cells into T cell leukemia. Tax2 is involved in the regulation of the HTLV-1 provirus replication and transcription. The tax gene is flanked by the 5' and 3' LTRs. The 5' LTR contains the promoter and enhancer elements. The 3' LTR contains the polyoma virus (PV) origin of replication. The tax gene is transcribed from the 5' LTR and translated into Tax1 and Tax2 proteins. Tax1 is a 86 kDa protein and Tax2 is a 70 kDa protein. Tax1 and Tax2 are involved in the regulation of the HTLV-1 provirus replication and transcription. Tax1 is also involved in the transformation of T cells into T cell leukemia. Tax2 is involved in the regulation of the HTLV-1 provirus replication and transcription.

**Organism** XXXXXXXX

**Tissue** XXXXXXXX XXXXXXXX

**Disease** XXXXXXXX XXXXXXXX

**Synonyms** L 540 L 540

**XXXXXXXXXX**

**Age** 20 XXX

**Gender** XXXXX

**Ethnicity** XXXXXXXX

**Morphology** XXXXXXXX XXXXXXXX

**Growth properties** XXXXXXXX

**XXXXXXXXXXXX XXXXXXXXXXXXXXX**

**Citation** L-540 (XXXXXXXX XXXXXXX XXXX 300201)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1362

**XXXXXXXXXXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX**

**HEK293T-L-540 | 300201**

**Viruses** HEK293T cells are used for the production of recombinant proteins and viral vectors.

**HEK293T cells**

**Culture Medium** RPMI 1640 (Gibco) + 2.0 mM L-glutamine (Gibco) + 2.0 mM NaHCO<sub>3</sub> (Gibco 820700a) + 10% FBS

**Supplements** 10% FBS

**Subculturing** 1:5 split ratio

**Fluid renewal** 3 times per week

**Freeze medium** RPMI 1640 + 2.0 mM L-glutamine + 2.0 mM NaHCO<sub>3</sub> + 10% FBS + 10% DMSO

**Thawing and Culturing Cells**

1. Thaw the cells in a 37°C water bath.
2. Centrifuge the cells at 300 x g for 3 minutes.
3. Resuspend the cells in 10 ml of fresh culture medium.
4. Seed the cells into a T75 flask at 70% confluency.
5. Incubate the cells at 37°C in 5% CO<sub>2</sub> for 8-15 days.
6. Harvest the cells when they reach 80-90% confluency.
7. Perform a 1:5 split ratio.
8. Repeat the process for subsequent passages.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>

**Flask Coating** None

