

## ARNT Knockout cell line (HEK293)

**Catalog Number:** KO08283

| Product Information        |                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name               | ARNT Knockout cell line (HEK293)                                                                                                                                          |
| specification              | 1*10 <sup>6</sup>                                                                                                                                                         |
| Storage and transportation | Dry ice preservation/T25 live cell transportation.                                                                                                                        |
| Cell morphology            | Epithelioid, adherent cell                                                                                                                                                |
| Passage ratio              | 1:3~1:6                                                                                                                                                                   |
| species                    | Human                                                                                                                                                                     |
| Gene                       | ARNT                                                                                                                                                                      |
| Gene ID                    | 405                                                                                                                                                                       |
| Build method               | Electric rotation method / virus method                                                                                                                                   |
| Mycoplasma testing         | Negative                                                                                                                                                                  |
| Cultivation system         | 90%DMEM+10% FBS                                                                                                                                                           |
| Parental Cell Line         | HEK293                                                                                                                                                                    |
| Quality Control            | Genotype: ARNT Knockout cell line (HEK293) >95% viability before freezing. All cells were tested and found to be free of bacterial, viruses, mycoplasma and other toxins. |

| Gene Information        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Official Full Name | aryl hydrocarbon receptor nuclear translocator provided by HGNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Also known as           | ARNT1; HIF1B; TANGO; bHLHe2; HIF1BETA; HIF-1beta; HIF1-beta; HIF-1-beta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Description        | This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013] |
| Expression              | Ubiquitous expression in ovary (RPKM 16.9), placenta (RPKM 14.7) and 25 other tissues See more                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |