

## MGMT Knockout cell line (HCT 116)

Catalog Number: KO03884

| Product Information        |                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name               | MGMT Knockout cell line (HCT 116)                                                                                                                                          |
| specification              | 1*10 <sup>6</sup>                                                                                                                                                          |
| Storage and transportation | Dry ice preservation/T25 live cell transportation.                                                                                                                         |
| Cell morphology            | Epithelioid, adherent cell                                                                                                                                                 |
| Passage ratio              | 1:2~1:4                                                                                                                                                                    |
| species                    | Human                                                                                                                                                                      |
| Gene                       | MGMT                                                                                                                                                                       |
| Gene ID                    | 4255                                                                                                                                                                       |
| Build method               | Electric rotation method / virus method                                                                                                                                    |
| Mycoplasma testing         | Negative                                                                                                                                                                   |
| Cultivation system         | 90%McCOYs 5A+10% FBS                                                                                                                                                       |
| Parental Cell Line         | HCT 116                                                                                                                                                                    |
| Quality Control            | Genotype: MGMT Knockout cell line (HCT 116) >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 | O-6-methylguanine-DNA methyltransferase provided by HGNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Description        | Alkylating agents are potent carcinogens that can result in cell death, mutation and cancer. The protein encoded by this gene is a DNA repair protein that is involved in cellular defense against mutagenesis and toxicity from alkylating agents. The protein catalyzes transfer of methyl groups from O(6)-alkylguanine and other methylated moieties of the DNA to its own molecule, which repairs the toxic lesions. Methylation of the genes promoter has been associated with several cancer types, including colorectal cancer, lung cancer, lymphoma and glioblastoma. [provided by RefSeq, Sep 2015] |
| Expression              | Ubiquitous expression in liver (RPKM 6.2), kidney (RPKM 3.0) and 25 other tissues See more                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |