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cGPS[®] CHO-K1 Duo Full Kit

Fast and effortless double targeted integration in engineered CHO-K1 cells

Instruction guide

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Catalog #CHO-0021-10 and #CHO-0021-05

Instruction guide

Description

The cGPS CHO-K1 Duo Full Kit enables two targeted integrations in engineered CHO-K1 cells by sequentially using the provided cGPS CHO-K1 and cGPS Custom CHO-K1 Full Kits. It takes advantage of meganuclease-driven targeted integration at two distinct genomic sites, the first being the integrated cGPS CHO-K1 locus of the engineered cGPS CHO-K1 Cell Line, the second being the native endogenous HPRT locus present in the hamster genome.

Due to specific drug selection conditions, the following chronology of targeted integrations must be strictly followed: the first targeted integration is performed at the cGPS CHO-K1 locus present in the cGPS CHO-K1 Cell Line (using the cGPS CHO-K1 Full Kit); the second targeted integration is performed on selected targeted cGPS CHO-K1 cell clones at the HPRT locus using the cGPS Custom CHO-K1 Full Kit.

For detailed information on reagents and protocols, please refer to the dedicated cGPS CHO-K1 and cGPS Custom CHO-K1 User Manuals downloadable from <http://www.collectis-bioresearch.com>.

Drug selection

The untargeted cGPS CHO-K1 Cell Line is hygromycin resistant, whereas the targeted cGPS CHO-K1 cell clones are neomycin and puromycin resistant. However, since transgene expression of targeted cGPS CHO-K1 cell clones has been shown to be stable at least 23 weeks in the absence of selection agents, **the second targeting process can be performed without neomycin and puromycin.**

Product Use Limitation

The cGPS CHO-K1 Duo products shall not be used for consumption by or use in connection with or administration or application to humans or animals.

The cGPS CHO-K1 Duo Full Kit shall be used for research purpose only. The research ("Research") is understood as the generation of knowledge regarding natural biological mechanisms, excluding notably all activities of screening, diagnostic and industrial production, as well as all commercial activities on the results of the Research.

All activities outside the Research, including without limitation all activities of screening, diagnostic and industrial production, as well as all commercial activities on the results of said Research, require a license from Collectis.

Third Parties commercial licenses:

The CMV Promoter is covered under the U.S Patents 5,168,062 and 5,385,839 and its use is permitted for Research purpose only. Any other use of the CMV Promoter requires license from the University of

Iowa, Research Foundation, 2660 University Capitol Centre, 200 S. Capitol, 200 S. Capitol Street, Iowa City, IA 52242.

The EF1 α promoter is covered under the US 5,225,348 and CA 2,005,016 patents and its use is permitted for Research purpose only. Any other use of EF1 α promoter requires license from Mochida.

Territory of use: World.