



Is it really necessary to check for both CNVs and SNVs in stem cells in culture?

Both variants can interfere with your cells in culture. Case in point, the first human trial using hPSCs at the RIKEN Institute in Japan was suspended due to the late identification of CNVs and SNVs in the cells that were about to be injected into patients.

What is the use of the backbone and PON in the Stem-Seq™ Plus assay?

As CNVs represent large regions of the genome, they are complex to analyze. Consequently, Stem Genomics introduced a backbone and a Pool of Normal (PON) in the Stem-Seq™ Plus assay to enable a more robust analysis of significant variants. The backbone of probes covers the entire genome. Combined with the PON, they enable data normalization between the target sample and the normal sample and effectively reduce background noise.

Regarding the Stem-Seq™ final analysis report, how are the variants interpreted?

Our specialists are committed to providing a comprehensive interpretation of single nucleotide variants (SNVs) by meticulously examining each variant in multiple databases such as Cosmic and ClinVar, as well as conducting an extensive literature review. In addition, for copy number variation (CNV) analysis, our team will prioritize your variant by comparing it against our proprietary database, the SMART database and the ACMG (American College of Medical Genetics and Genomics) classification standards.

Is it possible to obtain the list of excluded variants as well as the rationale behind the exclusion?

Yes, it is. We offer a transparent and comprehensive analysis process, starting with the provision of the raw data containing all the variants identified in your samples.

For research use only.

For more information,
please contact us at

✉ sales@stemgenomics.com

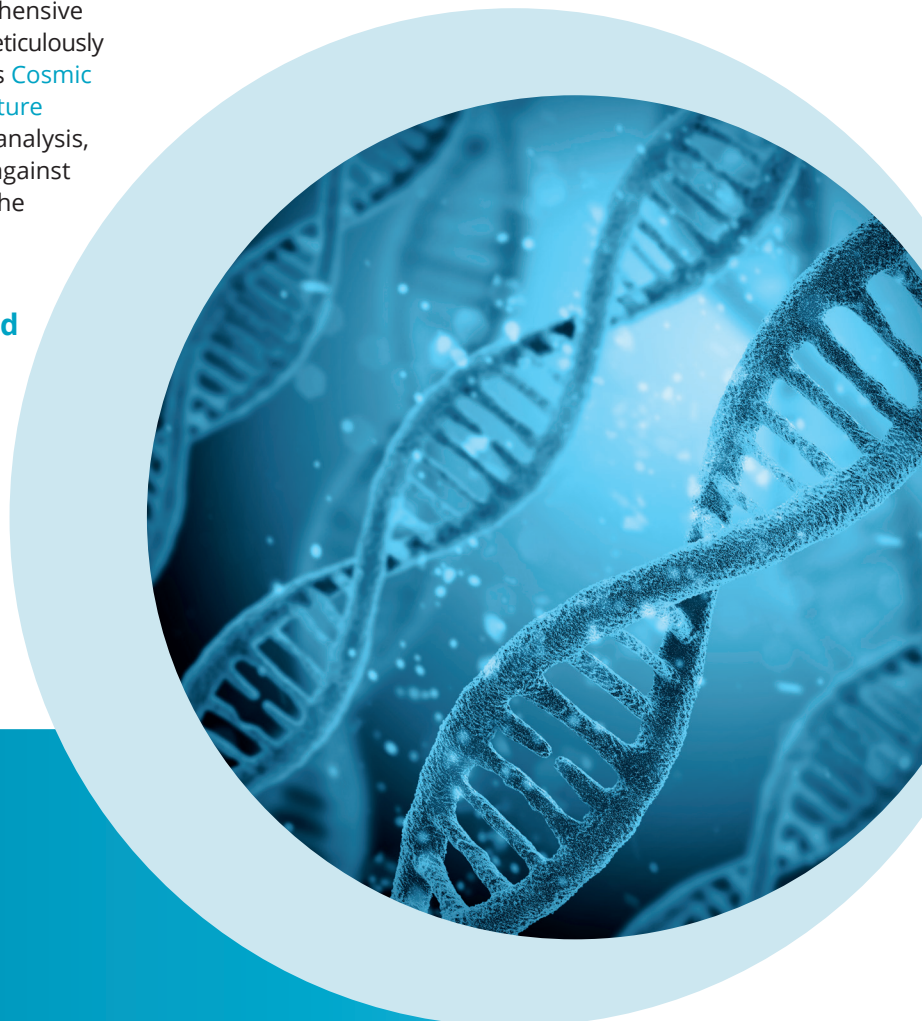
☎ +33 9 85 03 61 60

Is the assay relevant to all stem cell types?

The Stem-Seq™ Plus Assay has been designed to provide pertinent information to all stem cell scientists working on human stem cells. It is particularly suited to pluripotent stem cell scientists who encounter the highest level of mutations in their cells.

Is your assay range focused on genomic stability or can you support stem cell researchers with other useful assays that we can integrate into our QC?

In accordance with the ISSCR's latest quality standard recommendations, we strongly recommend regularly performing STR and mycoplasma tests. We can perform both for you in complement to genomic stability testing.



Stem Genomics

France: Stem Genomics SAS • IRMB - Hôpital Saint Eloi • 80 avenue Augustin Fliche - 34295 Montpellier Cedex 5

USA: Stem Genomics Inc • 5501 Fortunes Ridge Drive • Suite O • Durham • NC 27713 • www.stemgenomics.com