Cella Technologies

yeast two-hybrid system services

Peptide-Encoding Plasmid Construction Service (CT-200) - Service Description

Name of the service

Peptide-encoding plasmid construction service

Short Description

Insertion of a peptide encoding DNA fragment of interest into a (customized) plasmid of choice, Cella Technologies (Cat No CT-200).

Detailed Description

Provider

Cella Technologies is specialized in developing yeast two-hybrid system assays[1] that can be used to attempt to confirm protein–protein interactions (PPIs) / identify protein–protein interaction domains (PPIDs) experimentally. We use our expertise in PPID mapping to identify peptide protein–protein interaction inhibitor candidates[1] for clients from academia and industry worldwide. For our customers, we also design and construct peptide-encoding plasmids[1], molecular tool candidates that can be tested in cell culture research directly.

Background

We have extensive experience in molecular cloning, including constructing peptide-encoding plasmids and customizing vectors. Due to our skills, expertise and highly efficient workflows we can deliver high-quality work at competitive prices.

Service Details

This service can be used to obtain a series of expression plasmids that encode for short peptides derived from the primary structure of a short protein fragment that contains a PPID with specific PPI activity towards a PPID of the corresponding interacting/targeted protein[2].

This service (Cat No CT-200) includes:

- Designing and constructing the peptide-encoding plasmid(s); verifying constructed plasmid(s) through restriction enzyme analysis; verifying the cloned peptide-encoding fragment(s) through DNA sequencing.
- To the extent applicable, for a reasonable additional charge, we can modify the target vector, for example, adding a flexible linker-ORF to it[2].

Deliverables

After completion of the project you will receive (i) a report which clearly describes the project and its outcome; (ii) the DNA sequence chromatogram trace files; and (iii) the plasmid DNA prep(s) (standard 10 µg (for high-copy-number plasmids) or 5 µg (for most low-copy-number plasmids) molecular biology grade plasmid DNA (in Tris buffer or in water).

Sample Submission

Plasmid template DNA encoding the protein of interest and target/backbone vector DNA have to be provided, you will receive shipping instructions; please contact us for advice in case you don't have that DNA available.

Prices

Prices depend on several factors, for details please refer to the Price Information document, which can be obtained through our website(1).

Quotation requests

To get a(n) estimate/quote (possible in several currencies) for your specific project, please contact us through the Scientist.com platform(3) or contact us directly. In a quotation request you can choose (especially when it comes to information that is not yet in the public domain) to indicate the fragment(s) of the concerning protein with a code name, thus use PRTN1(...-...), and, if applicable, PRTN2(...-...), PRTN3(...-…), and so on, and do not mention real protein names/symbols. Please note: currently, our services can be purchased only through the Scientist.com platform(3).

Turnaround times

Please contact us for turnaround times.

Keywords

peptide-encoding plasmid construction, molecular cloning, protein–protein interaction inhibition, peptide protein–protein interaction inhibitor

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For the latest version of this Service Description (SD) document, please refer to our website(1).

Footnotes

1. For references and additional (including legal, order, price and technical) information, please refer to our website at https://cellatechnologies.com or contact us.
2. See also Table 1 on our Peptide protein–protein interaction inhibitors web page at https://cellatechnologies.com/index.php/tech/peptide-protein-protein-interaction-inhibitors.
3. https://app.scientist.com/providers/cella-technologies.

Please note, some PDF-readers have difficulties with URLs, if clicking on an underlined URL results in an error message in your web browser, then please complete the URL in the URL bar of your web browser through copy-paste or by typing.

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