Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 10, 2025

Frederick National Laboratory Protein Expression Laboratory Core Facility

RRID:SCR_021286
Type: Tool

Proper Citation

Frederick National Laboratory Protein Expression Laboratory Core Facility (RRID:SCR_021286)

Resource Information

URL: http://web.ncifcrf.gov/atp/default.asp?LabID=12&page=labs

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Description: Comprises six service groups. Our services are available to all NIH intramural researchers, and by interagency agreements to FDA and US Army at Ft. Detrick. We are happy to consult and distribute materials to not-for-profit institutions.Clone Optimization service include DNA cloning for protein expression; Gateway-based; fluorescent, epitope, solubility, purification tags; mutagenesis; vectors for insect/ baculovirus, mammalian, E. coli, P. pastoris, K. lactis. Microbial Expression: E. coli, P. pastoris, K. lactis, 2 mL to 60 L, autoinduction and IPTG; fully instrumented fermenters.Eukaryotic Expression service include insect / baculovirus, mammalian transient and stable, monoclonal antibodies.Protein Purification service include parallel microscale for process development; affinity and native, tag and endotoxin removal; scale-up to low gram scale.Virus Technology service include custom and stock adenovirus and lentivirus production; titer determination; promoter and reporter panels in lentivirus ready to deliver.Molecular Detection: qPCR and ELISA assaysdeveloped and executed, focused on human viruses in human samples; qPCR assays for mycoplasma and human pathogenic viruses contaminating cell lines; cell line identity testing.

Abbreviations: PEL

Synonyms: FNL Protein Expression Laboratory

Resource Type: core facility, service resource, access service resource

Keywords: USEDit, ABRF

Funding:

Resource Name: Frederick National Laboratory Protein Expression Laboratory Core Facility

Resource ID: SCR_021286

Alternate IDs: ABRF_341

Alternate URLs: https://coremarketplace.org/?FacilityID=341

Record Creation Time: 20220129T080354+0000

Record Last Update: 20250508T065938+0000

Ratings and Alerts

No rating or validation information has been found for Frederick National Laboratory Protein Expression Laboratory Core Facility.

No alerts have been found for Frederick National Laboratory Protein Expression Laboratory Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Nguyen DC, et al. (2025) SARS-CoV-2-specific plasma cells are not durably established in the bone marrow long-lived compartment after mRNA vaccination. Nature medicine, 31(1), 235.

Lee F, et al. (2024) The Majority of SARS-CoV-2 Plasma Cells are Excluded from the Bone Marrow Long-Lived Compartment 33 Months after mRNA Vaccination. Research square.

Walker AJ, et al. (2017) Tumor Antigen and Receptor Densities Regulate Efficacy of a Chimeric Antigen Receptor Targeting Anaplastic Lymphoma Kinase. Molecular therapy : the journal of the American Society of Gene Therapy, 25(9), 2189.

Qatanani M, et al. (2013) Inverse regulation of inflammation and mitochondrial function in adipose tissue defines extreme insulin sensitivity in morbidly obese patients. Diabetes, 62(3), 855.

Deb R, et al. (2011) Coexpression of PPE 34.9 Antigen of Mycobacterium avium subsp. Paratuberculosis with Murine Interferon Gamma in HeLa Cell Line and Study of Their Immunogenicity in Murine Model. Biotechnology research international, 2011, 632705.

Deb R, et al. (2010) Expression of a Gene Encoding 34.9?kDa PPE Antigen of Mycobacterium avium subsp. paratuberculosis in E. coli. Molecular biology international, 2010, 628153.