



OXFORD
EXPRESSION
TECHNOLOGIES

the science of baculovirus expression™

Oxford Expression Technologies (OET) is a biotechnology company and centre of excellence for baculovirus protein expression. Specialising in the use of the baculovirus expression vector system, a eukaryotic expression system that can express a large variety of recombinant proteins, OET provides protein expression products, services and consultancy to many global pharmaceutical companies.

The company was founded in 2000 from a collaboration between Oxford Brookes University and the Natural Environment Research Council to provide researchers with custom proteins for research purposes. For further details about the Company's services and products, please visit www.oetltd.com

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*baculo*QUANT™

One-step titration kit

The baculovirus expression system is widely used for the production of foreign proteins in insect cells. For optimal protein production, it is essential that an accurate titre of virus be obtained prior to infection. Traditionally baculoviruses have been titred by plaque assay, end point dilution and antibody-based assays. These methods often need 4 - 6 days to yield a virus titre and involve procedures which require expertise in cell culture and virus handling.

To overcome the problems incurred during traditional titration protocols, Oxford Expression Technologies have developed a novel one-step virus titration kit which can give a result within 2 hours without the need for plaque assays or immuno-



*titre*PLUS™

All-in-one baculovirus expression and titration

*titre*PLUS™ is a new combination kit, bringing together both of the above technologies into a single format, providing a unique 'off-the-shelf' solution to making recombinant viruses.

Using this kit researchers can rapidly make single or multiple recombinant viruses in a single step procedure and then obtain titre(s) on the same day as harvest.



flashBAC™

One-step baculovirus protein expression

The *flashBAC™* system is a **new platform technology** for the production of recombinant baculoviruses. Most importantly, *flashBAC™* has been specifically designed to remove the need to separate recombinant virus from parental virus by

plaque-purification or any other means. The production of recombinant virus has been reduced to a **one-step procedure** in insect cells and is thus **fully amenable to high throughput and automated production systems.**

flashBACGOLD™

Enhanced yields for difficult to express proteins

Complex secretory or membrane-bound glycoproteins are often more difficult to express using baculovirus and produced in lower amounts compared to cytoplasmic or nuclear proteins.

flashBACGOLD™ is a baculovirus expression vector that has been designed to reduce proteolysis, maximise protein secretion and improve membrane protein targeting and is based on our patented *flashBAC™* system, removing the necessity for plaque-purification. As such, it is also back-compatible with all existing baculovirus transfer vectors based on homologous recombination in insect cells at the polyhedrin locus.



flashBACULTRA™

Superior Expression and Yield

flashBAC™ is an expression system that allows the production of multiple recombinant viruses in a one-step process. This technology has greatly de-skilled the process of making recombinant viruses and increased the throughput of recombinant protein production. It also has a chitinase gene deletion (*chiA*) that greatly improves the movement of recombinant proteins through the cellular secretory pathway.



flashBAC10™

Extended Production Time

flashBAC™ is an expression system that allows the production of multiple recombinant viruses in a one-step process. This technology has greatly de-skilled the process of making recombinant viruses and increased the throughput of recombinant protein production. It also has a chitinase gene deletion (*chiA*) that greatly improves the

movement of recombinant proteins through the cells secretory pathway.

flashBAC10™ builds upon this existing technology by the removal of the p10 gene from the *flashBAC™* genome.

*baculo***XPRESS**[™]

Contract and Consultancy Services

Oxford Expression Technologies offers a comprehensive custom baculovirus expression service that can be tailored to individual requirements.

Now you can get the very best custom services from the world-wide specialists in this field.

The information provided here is a general guide to our expertise. We would be pleased to quote for additional services designed to suit your requirements.

Service details:

- Gene Synthesis
- PCR Cloning
- Sub-cloning
- Production of recombinant virus
- Optimisation of expression
- Protein production
- Protein purification
- Additional virus inoculum
- Titration Service

ONLINEORDERING is easy - **www.oetltd.com**

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As part of Oxford Expression Technologies' environmental policy this brochure has been printed on FSC paper

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PRODUCTS ARE FOR RESEARCH PURPOSES ONLY, NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

