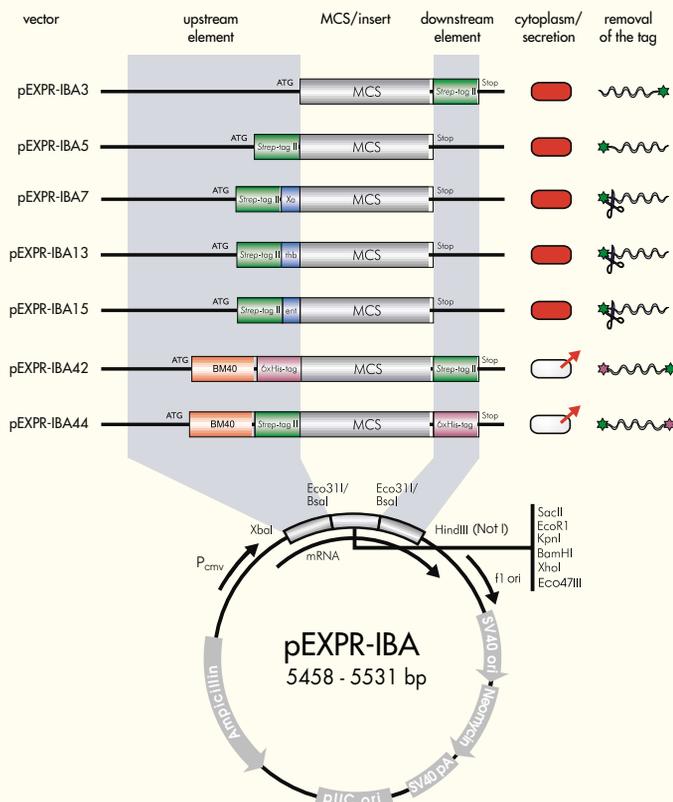


pEXPR-IBA vectors with *Strep-tag*[®] and/or 6xHis-tag for mammalian expression

IBA has just released the new pEXPR-IBA vectors designed for high-level expression and purification of recombinant *Strep-tag* and/or 6x His-tag fusion proteins in mammalian cells. The vectors provide the same cloning strategy and thus are compatible with the corresponding bacterial pASK-IBA plasmids (see back side). This means that a PCR fragment can be cloned into pASK-IBA and its pEXPR-IBA equivalent in

parallel (e.g. pASK-IBA3 \approx pEXPR-IBA3). The human cytomegalovirus immediate-early (CMV) promoter provides strong expression in a wide range of mammalian cells. To prolong expression in transfected cells, the vector will replicate in cell lines that are latently infected with SV40 large T antigen (e.g. COS7). In addition, the Neomycin resistance gene allows direct selection of stable cell lines.



Order information

| Cat.no. | description | amount |
|------------|-------------|-----------|
| 2-1903-000 | pEXPR-IBA3 | 5 μ g |
| 2-1905-000 | pEXPR-IBA5 | 5 μ g |
| 2-1907-000 | pEXPR-IBA7 | 5 μ g |
| 2-1913-000 | pEXPR-IBA13 | 5 μ g |
| 2-1915-000 | pEXPR-IBA15 | 5 μ g |
| 2-1942-000 | pEXPR-IBA42 | 5 μ g |
| 2-1944-000 | pEXPR-IBA44 | 5 μ g |

pEXPR-IBA features

benefits

| | |
|--|---|
| <i>Strep-tag</i> II | Purification of recombinant protein using <i>Strep</i> -Tactin matrices |
| CMV immediate-early promoter/enhancer | High-level expression in a wide range of mammalian cells |
| Multiple cloning site | Insertion of gene of interest and fusion to <i>Strep-tag</i> and/or 6xHis-tag. Compatible with pASK-IBA vectors |
| Neomycin resistance gene | Selection of stable transfectants in mammalian cells |
| Ampicillin resistance gene | Selection in <i>E. coli</i> |
| pUC origin | High-copy number replication in <i>E. coli</i> |
| BM40 (pEXPR-IBA42 and 44 only) | Secretion of proteins into the medium |
| Factor Xa, thrombin (thb), enterokinase (ent) cleavage sites | Removal of the <i>Strep-tag</i> if required (generally not necessary) |

pASK-IBAplus vectors for *E. coli*

The cytoplasmic pASK-IBA vectors, which are already well established for expression of *Strep-tag*[®] and/or 6xHis-tag fusion proteins, are now offered as “plus” version. This new version contains an improved translation initiation site in-

creasing primary protein yield while the remaining sequence of the “plus” vectors (e.g. pASK-IBA3plus) is identical to its “non-plus” predecessor (e.g. pASK-IBA3*). The “non-plus” version is from now on only available on request.

Below please find a complete list of pASK-IBA *E. coli* vectors allowing the expression of recombinant proteins carrying *Strep-tag* and/or 6xHis-tag.

Except for the antibiotic resistance genes (Amp^R, Cam^R) the pASK-IBA vectors differ only between the *Xba*I and *Hind*III restriction sites.

For pre-cut versions please refer to www.iba-go.com

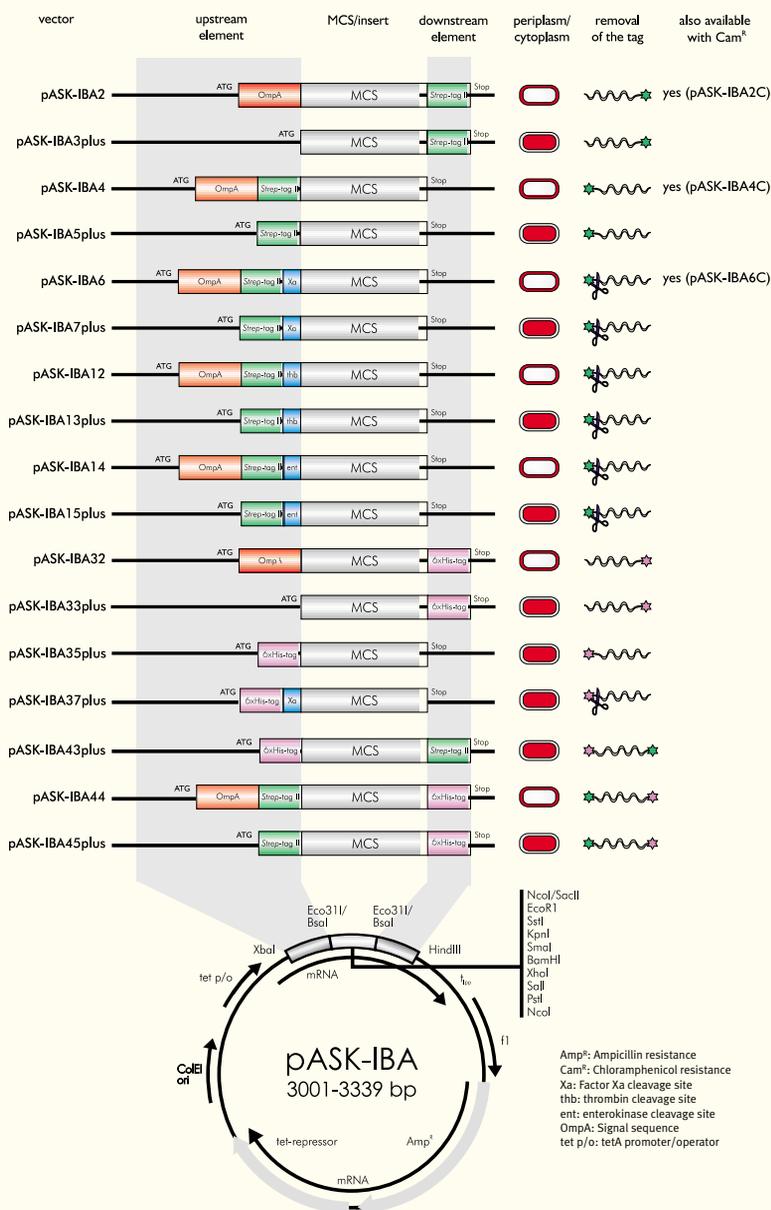
Strep-tag[®], 6xHis-tag and double-tag vectors

For details on double-tags see www.iba-bioTAGnology.com.

Order information

| Cat.no. | description | amount |
|------------|----------------|--------|
| 2-1301-000 | pASK-IBA2 | 5 µg |
| 2-1303-000 | pASK-IBA4 | 5 µg |
| 2-1305-000 | pASK-IBA6 | 5 µg |
| 2-1311-000 | pASK-IBA12 | 5 µg |
| 2-1313-000 | pASK-IBA14 | 5 µg |
| 2-1321-000 | pASK-IBA2C | 5 µg |
| 2-1323-000 | pASK-IBA4C | 5 µg |
| 2-1325-000 | pASK-IBA6C | 5 µg |
| 2-1332-000 | pASK-IBA32 | 5 µg |
| 2-1344-000 | pASK-IBA44 | 5 µg |
| 2-1402-000 | pASK-IBA3plus | 5 µg |
| 2-1404-000 | pASK-IBA5plus | 5 µg |
| 2-1406-000 | pASK-IBA7plus | 5 µg |
| 2-1412-000 | pASK-IBA13plus | 5 µg |
| 2-1414-000 | pASK-IBA15plus | 5 µg |
| 2-1433-000 | pASK-IBA33plus | 5 µg |
| 2-1435-000 | pASK-IBA35plus | 5 µg |
| 2-1437-000 | pASK-IBA37plus | 5 µg |
| 2-1443-000 | pASK-IBA43plus | 5 µg |
| 2-1445-000 | pASK-IBA45plus | 5 µg |

*Exception: pASK-IBA43plus contains a *Nhe*I restriction site between the ATG start codon and the N-terminal 6xHis tag, which is not included in pASK-IBA43.



Amp^R: Ampicillin resistance
 Cam^R: Chloramphenicol resistance
 Xa: Factor Xa cleavage site
 thb: thrombin cleavage site
 ent: enterokinase cleavage site
 OmpA: Signal sequence
 tet p/o: tetA promoter/operator