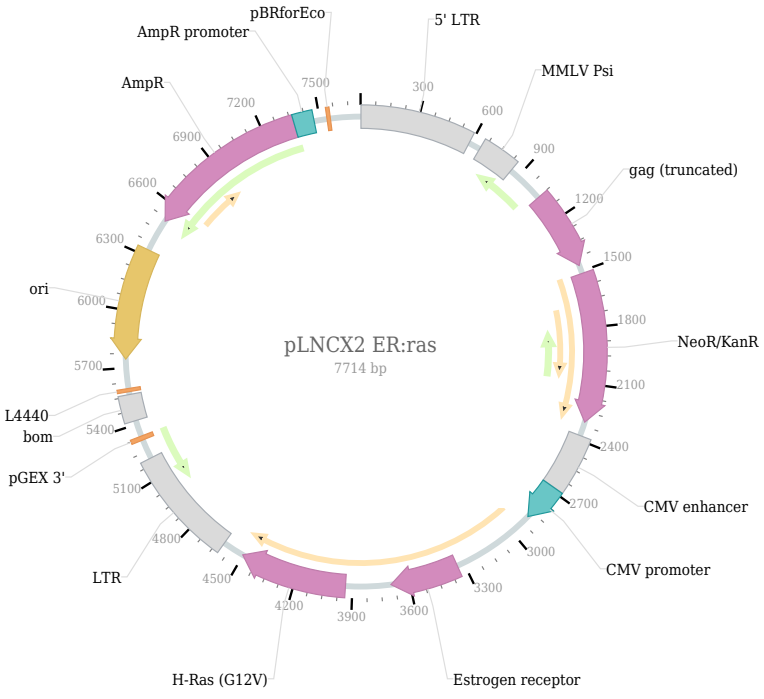
pLNCX2 ER:ras

Vector ID	V012423
Antibiotic Resistance	Ampicillin
Length	7714 bp
Vector Type	Mammalian Expression

Product Information

Replication Origin	ori
Selection Marker	Neomycin (select with G418)
Copy Number	High Copy
Promoter	CMV
Cloning Method	Restriction Enzyme
5' Primer	AGCTCGTTTAGTGAACCGTCAGATC
3' Primer	ACCTACAGGTGGGGTCTTTCATTCCC
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	The pLNCX2 ER:ras vector is designed to express a fusion protein consisting of the estrogen receptor (ER) ligand-binding domain and the ras oncogene, rendering its activity inducible by 4-hydroxytamoxifen. This construct allows for controlled activation of ras signaling pathways in a temporal and dose-dependent manner, making it a valuable tool for studying ras-mediated cellular processes and oncogenesis in mammalian cells.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.