

Public Clone Resources and Clone Distributors

Introduction

Large-scale genomic projects by the research community and in industry have created comprehensive cDNA clone resources for many organisms that are publically available for conducting research. Those clones can be obtained from commercial providers or different clone distributors, which commonly offer copies of the clones on a fee-for-service basis. The rights to use the clones may be restricted by an agreement set forward by the owner of the clone resource. Most clone providers offer their own online database to conduct clone searches and to order clones of interest. Note that clones from those resources commonly require manipulation or sub-cloning steps before they can be used in protein expression.

Examples for Public Clone Providers and Clone Distributors

Clone Provider	Resources	URL
Addgene	Non-profit plasmid repository	https://www.addgene.org/
DGRC	Drosophila clones	https://dgrc.cgb.indiana.edu/Home
DNAFORM	Clone distributor	http://www.cloneresources.com/cgi-bin/DNAFORM/welcome_en
DNASU	Central repository	https://dnasu.org/DNASU/
GE Dharmacon	Clone distributor	http://dharmacon.gelifesciences.com/geneius-product-search/
Genecopoeia	Clone provider	http://www.genecopoeia.com/
Invitrogen	Gateway entry clone provider	http://www.lifetechnologies.com/us/en/home/life-science/cloning/gateway-cloning/entry-clones.html
Kazusa DNA Research Institute	Human, mouse, plant	http://www.biosupport.kazusa.or.jp/english/sub_center1/index.html#human_clone
NBRC	Non-profit repository for human clones	http://www.nbrc.nite.go.jp/e/hgentry-e.html
NIAS DNA Bank	Non-profit repository for rice and animal resources	http://www.dna.affrc.go.jp/
RIKEN BRC	Non-profit plasmid repository	http://en.brc.riken.jp/
Source Biosciences	Clone distributor	http://www.lifesciences.sourcebioscience.com/genomecube/

Examples for important Clone Resources

Project	Resources	URL
Broad Institute	Human ORF clones	http://www.broadinstitute.org/rnai/orfs
Drosophila Gene Collection	Drosophila	http://www.fruitfly.org:9005/DGC/index.html
Human Gene and Protein Database	Human	http://hgpd.lifesciencedb.jp/cgi/
I.M.A.G.E Consortium	Cow, zebrafish, pufferfish, human, mouse, rat, primate, frog	http://www.imageconsortium.org/
Mammalian Gene Collection	Human, mouse, rat, bovine	http://mgc.nci.nih.gov/
National Bioresource Project	Different plants	http://www.nbrp.jp/report/reportProject.jsp?project=arabidopsis#availableResources
ORFeomeCollaboration	Human ORF clones	http://www.orfeomecollaboration.org/
RIKEN FANTOM	Mouse	http://fantom.gsc.riken.jp/

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