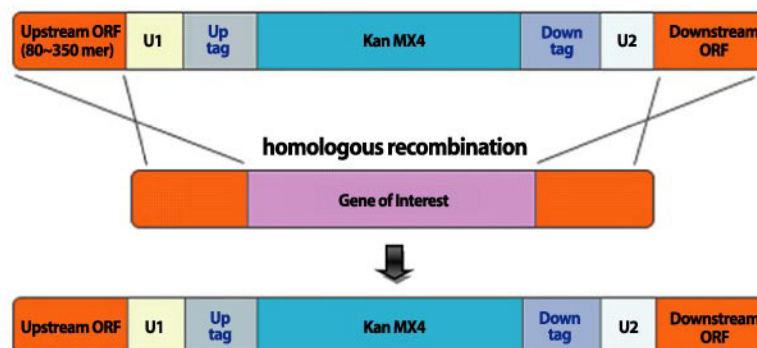


# *S. pombe* Deletion Mutant Library

Bioneer exclusively offers *Schizosaccharomyces pombe* (*S. pombe* Genome-wide Deletion Mutant Library) as a powerful tool for large-scale genetic functional analysis, identification and verification research of drug targets and for integrated systems research of cell function. The *S. pombe* Genome-wide Deletion Mutant Library, developed by Bioneer and KRIBB in Korea, in collaboration with Dr. Paul Nurse of Cancer Research Center in UK, can be used for genetic and chemical screening such as drug target identification, gene expression profiling, and synthetic lethal profiling and offers a higher homology with mammalian cells and human genes than those of *Saccharomyces cerevisiae*.

*Schizosaccharomyces pombe* Genome-wide Deletion Mutant Library targeted every ORF (total of 4,914 different types) in *S. pombe* genome using targeted mutagenesis method. A total of 4,836 heterozygous diploid deletion mutants representing 98.4% genome coverage and 3,308 haploid deletion mutants with 92.8% genome coverage are available. Since there are different tag sequences (Barcode) in each individual manufactured mutant, they are an ideal way to approach research in gene function and drug target screening for large numbers of genes by using pools of mutants. It is also possible to analyze biological gene function through phenotype research with the deletion mutant having specific genes absent.



<b><i>S. pombe</i> Deletion Mutant Library Specification</b>	
No. of strains	Diploid 4,836 strains, Haploid 3,308 strains
Selection Marker	Geneticin (G418)
Genotype	Diploid SP286 h+/h+ ade6-M210/ade6-M216 ura4-D18/ura4-D18 leu1-32/leu1-32
	Haploid ED666 h+ ade6-M210 ura4-D18 leu1-32
	ED668 h+ ade6-M216 ura4-D18 leu1-32
Culture media	YES : for rich complete medium
	EMM : for minimal medium
Strain verification	Check PCR, Sequencing
Storage	Store at -70 °C (Glycerol type)
	Store at room temperature (Agar type)
References	Kim DU., et al. Nat Biotechnol.2010 Jun;28(6):617-23

## Features and Benefits

- Genome-wide deletion mutants library (Only 2 kinds exist: *S.pombe* & *S.cerevisiae*)
- It is similar with physiological process of mammalian cells
- It has human cancer gene and over 30% of homology
- It has the rapid cell cycle that it is simple to analyze molecular biological mechanism and pathway
- Phenotype analysis is possible since it is recessive mutant type
- Unknown genomic function analysis through functional complementation is possible
- Analyzing genes biological mass function is possible using Genome-wide pool set
- Cell base HCS drug target screening is possible

## Product Lists

Cat. No.	Product	Details	Contents
<b><i>S. pombe</i> Haploid Deletion Mutants</b>			
M-1010H-A	<i>S. pombe</i> Individual Haploid Deletion Mutant Strains	Agar Type	Individual Deletion Mutant Strain Strain information sheet Product manual
M-1010H-G	<i>S. pombe</i> Individual Haploid Deletion Mutant Strains	Glycerol Type	
M-3030H	<i>S. pombe</i> Haploid Deletion Mutant Set ver 3.0	36 plates (96-well)	96-well plates Wild type Strain (ED666 and ED668; included in 96-well plate) List of haploid strains on CD Product manual Validation Primer Set (optional)
M-3030H-L	<i>S. pombe</i> Haploid Deletion Mutant Set ver 3.0 Licensing	36 plates (96-well)	
M-2030H-U	<i>S. pombe</i> Haploid Deletion Mutant Set ver 2.0 Upgrade Pkg	6 plates (96-well)	
<b><i>S. pombe</i> Heterozygous Diploid Deletion Mutants</b>			
M-1010D-A	<i>S. pombe</i> Individual Heterozygous Diploid Deletion Mutant Strains	Agar Type	Individual Deletion Mutant Strain Strain information sheet Product manual
M-1010D-G	<i>S. pombe</i> Individual Heterozygous Diploid Deletion Mutant Strains	Glycerol Type	
M-1030D	<i>S. pombe</i> Heterozygous Diploid Deletion Mutant Set (4,840 strains)	54 plates (96-well)	96-well plates Wild type Strain (SP286; included in 96-well plate) List of diploid strains on CD Product manual
M-1021D ~ 1029D	<i>S. pombe</i> Heterozygous Diploid Deletion Mutant Set by Functional Group	Varies	
<b>Validation Primer Set and Genomic DNA</b>			
M-3030P	<i>AccuOligo</i> ® <i>S. pombe</i> Validation Primer Set	72 plates (96-well)	96-well plates List of diploid strains on CD Product manual
M-1030-D	<i>S. pombe</i> Genomic DNA	5 x 0.2 ml	

## Contact Us

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