

S1 Table. Yeast strains used in this study.

Name	Genotype	Description
yAAH0418	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS416-Hsh155 ^{WT}	Strain used to generate HSH155 mutants by plasmid shuffle.
yAAH0424	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{WT}	Strain expressing Hsh155 ^{WT} . Used for temperature assay.
yAAH2151	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{V502F}	Strain expressing Hsh155 ^{V502F} . Used for temperature assay.
yAAH1971	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{E529K}	Strain expressing Hsh155 ^{E529K} . Used for temperature assay.
yAAH2152	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{E531K}	Strain expressing Hsh155 ^{E531K} . Used for temperature assay.
yAAH1922	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{D563G}	Strain expressing Hsh155 ^{D563G} . Used for temperature assay.
yAAH2149	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{E571G}	Strain expressing Hsh155 ^{E571G} . Used for temperature assay.
yAAH2150	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{E571K}	Strain expressing Hsh155 ^{E571K} . Used for temperature assay.
yAAH2153	MATa prc1407 prb11122 pep43 leu2 trp1 ura352 gal2, hsh155::KanMx, pRS414-Hsh155 ^{I626Q}	Strain expressing Hsh155 ^{I626Q} . Used for temperature assay.
yAAH0465	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS416-Hsh155 ^{WT}	Copper sensitive strain used to generate HSH155 mutants for ACT1-CUP1 by plasmid shuffle. Hsh155 was deleted using KanMax cassette.
yAAH0648	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{WT}	Copper sensitive strain expressing Hsh155 ^{WT} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2156	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{V502F}	Copper sensitive strain expressing Hsh155 ^{V502F} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH1999	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E529K}	Copper sensitive strain expressing Hsh155 ^{E529K} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2157	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E531K}	Copper sensitive strain expressing Hsh155 ^{E531K} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH1921	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{D563G}	Copper sensitive strain expressing Hsh155 ^{D563G} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2154	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E571G}	Copper sensitive strain expressing Hsh155 ^{E571G} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2155	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E571K}	Copper sensitive strain expressing Hsh155 ^{E571K} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.

yAAH2158	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{I626Q}	Copper sensitive strain expressing Hsh155 ^{I626Q} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH0650	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{H331D}	Copper sensitive strain expressing Hsh155 ^{H331D} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH0635	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{D450G}	Copper sensitive strain expressing Hsh155 ^{D450G} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yTJC0298	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{K740R}	Copper sensitive strain expressing Hsh155 ^{K740R} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yTJC0300	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{N747A}	Copper sensitive strain expressing Hsh155 ^{N747A} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2237	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{H331D/V502F}	Copper sensitive strain expressing Hsh155 ^{H331D/V502F} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2236	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{D450G/V502F}	Copper sensitive strain expressing Hsh155 ^{D450G/V502F} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2238	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{K740R/V502F}	Copper sensitive strain expressing Hsh155 ^{K740R/V502F} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2239	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{N747A/V502F}	Copper sensitive strain expressing Hsh155 ^{N747A/V502F} . Used for ACT1-CUP1 assay after transformation with reporter plasmids.
yAAH2214	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS416-Hsh155 ^{WT} prp2::hphMX pRS415-Prp2 ^{WT}	Used to generate Hsh155 mutants strains by plasmid shuffle. Prp2 was deleted using an hphMX deletion cassette.
yAAH2214	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS416-Hsh155 ^{WT} prp2::hphMX pRS415-Prp2 ^{Q548N}	Used to generate Hsh155 alleles by plasmid shuffle. Prp2 was deleted using an hphMX deletion cassette.
yAAH1915	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{WT} prp2::hphMX pRS415-Prp2 ^{WT}	Copper sensitive strain expressing Hsh155 ^{WT} and Prp2 ^{WT} from plasmids. Used for temperature assays.
yAAH2221	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{V502F} prp2::hphMX pRS415-Prp2 ^{WT}	Copper sensitive strain expressing Hsh155 ^{V502F} and Prp2 ^{WT} from plasmids. Used for temperature assays.
yAAH2222	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E529K} prp2::hphMX pRS415-Prp2 ^{WT}	Copper sensitive strain expressing Hsh155 ^{E529K} and Prp2 ^{WT} from plasmids. Used for temperature assays.
yAAH2219	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E531K} prp2::hphMX pRS415-Prp2 ^{WT}	Copper sensitive strain expressing Hsh155 ^{E531K} and Prp2 ^{WT} from plasmids. Used for temperature assays.
yAAH1964	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2	Copper sensitive strain expressing Hsh155 ^{D563G} and Prp2 ^{WT} from plasmids. Used for temperature assays.

	Hsh155::KanMx, pRS414-Hsh155 ^{D563G} prp2::hphMX pRS415-Prp2 ^{WT}	
yAAH2218	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E571G} prp2::hphMX pRS415-Prp2 ^{WT}	Copper sensitive strain expressing Hsh155 ^{E571G} and Prp2 ^{WT} from plasmids. Used for temperature assays.
yAAH2217	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E571K} prp2::hphMX pRS415-Prp2 ^{WT}	Copper sensitive strain expressing Hsh155 ^{E571K} and Prp2 ^{WT} from plasmids. Used for temperature assays.
yAAH2220	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{I626Q} prp2::hphMX pRS415-Prp2 ^{WT}	Copper sensitive strain expressing Hsh155 ^{I626Q} and Prp2 ^{WT} from plasmids. Used for temperature assays.
yAAH1916	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{WT} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{WT} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
yAAH2224	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{V502F} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{V502F} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
yAAH2223	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E529K} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{E529K} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
yAAH2226	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{E531K} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{E531K} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
yAAH1963	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS414-Hsh155 ^{D563G} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{D563G} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
yAAH2227	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS416-Hsh155 ^{E571G} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{E571G} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
yAAH2228	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS416-Hsh155 ^{E571K} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{E571K} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
yAAH2225	MAT α cup1 Δ ura3 his3 trp1 lys2 ade2 leu2 Hsh155::KanMx, pRS416-Hsh155 ^{I626Q} prp2::hphMX pRS415-Prp2 ^{Q548N}	Copper sensitive strain expressing Hsh155 ^{I626Q} and Prp2 ^{Q584N} from plasmids. Used for temperature assays.
Y2H GOLD	MAT α , trp1-901, leu2-3, 112, ura3-52, his3- 200, gal4 Δ , gal80 Δ , LYS2::GAL1UAS- Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade2 URA3::MEL1UAS-Mel1TATA AUR1-C MEL1	Strain used to test interactions by Y2H (Clontech).

yAAH0595	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LYS2::GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade2 URA3::MEL1UAS-Mel1TATA AUR1-C MEL1	Strain used as negative control for Y2H assay ((AD HSH155 ^{WT} ; BD Empty)
yAAH2329	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between HSH155 WT and PRP5 using Y2H assay
yAAH2330	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used as negative control for Y2H assay for probing the interactions against Prp5
yAAH2331	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between the HSH155 ^{V502F} allele and Prp5 (AD HSH155 ^{V502F} ; BD PRP5)
yAAH2332	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between the HSH155 ^{D563G} allele and PRP5 (AD HSH155 ^{D563G} ; BD PRP5)
yAAH2333	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between the HSH155 ^{E571K} allele and PRP5 (AD HSH155 ^{E571K} ; BD PRP5)
yAAH2335	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Used to generate strains for Y2H assay after transformation with pGADT7 Hsh155 mutant plasmids.
yAAH2336	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between HSH155 WT and PRP3 using Y2H assay (AD HSH155 WT; BD PRP3)
yAAH2337	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used as negative control for Y2H assay for probing the interactions against Prp5 (AD Empty; BD PRP3)
yAAH2338	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between the HSH155 ^{V502F} allele and Prp5 (AD HSH155 ^{V502F} ; BD PRP5)
yAAH2339	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between the HSH155 ^{D563G} allele and PRP5 (AD HSH155 ^{D563G} ; BD PRP5)
yAAH2340	MATa, trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LUS2: :GAL1UAS-Gal1TATA-His3, GAL2UAS-Gal2TATA-Ade URA3: :MEL1UAS-Mel1TATA AUR1-C	Strain used to test the interaction between the HSH155 ^{E571K} allele and PRP5 (AD HSH155 ^{E571K} ; BD PRP5)