

# Multi-Omic Data Integration

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# 1 Integrative analysis examples

## 1.0.1 TF binding and expression co-regulation in yeast

There are two key experimental components to this example:

- Protein binding patterns: based on ChIP-chip experiments, we can determine the gene promoter regions to which transcription factors bind.
- Expression patterns: based on timed observations of gene expression in a yeast colony we can identify times at which groups of genes reach maximal expression.

```
# Import data
library(harbChIP)
data(harbChIP)
```

```
# Check paper's abstract
abstract(harbChIP)
```

```
## [1] "DNA-binding transcriptional regulators interpret the genome's regulatory code by binding to spe
```

```
# Check expression data
exprs(harbChIP)[1:5, 1:5]
```

```
##           A1 (MATA1)      ABF1      ABT1      ACA1      ACE2
## YAL001C  1.6977540 0.8601142 1.159109 1.0205623 0.9899548
## YAL002W           NaN           NaN 0.675786 1.1599005 0.9212979
## YAL003W           NaN           NaN 1.027394 0.6062923 1.0920683
## YAL004W  0.7453422 0.8980736 0.734178 1.0178488 1.0060603
## YAL005C           NaN           NaN 1.027394 0.6062923 1.0920683
```

```
# Check feature data
fData(harbChIP)[1:4, 1:9]
```

```
##           ID PLATE WELL      NAME Chr  START      END SIZE FOR_SEQ_NO
## YAL001C YAL001C      1   F7 iYAL001C   1 151168 151458  290   YGP23538
## YAL002W YAL002W      1   F6 iYAL002W   1 147533 147596   63   YGP23536
## YAL003W YAL003W      1   F5 iYAL003W   1 143163 144003  840   YGP23534
## YAL004W YAL004W      1   F4 iYAL004W   1 141410 142177  767   YGP23532
```

```
# Check pheno data (it's TFs' names)
sampleNames(harbChIP)[1:3]
```

```
## [1] "A1 (MATA1)" "ABF1"      "ABT1"
```

Now let's find MBP1 transcription factor and assess the distribution of reported binding affinity measures.

```
qnorm(exprs(harbChIP)[, "MBP1"])
```

```
##           YAL001C      YAL002W      YAL003W      YAL004W      YAL005C      YAL007C
##           NaN           NaN           NaN           NaN           NaN           NaN
##           YAL008W      YAL009W      YAL010C      YAL011W      YAL012W      YAL013W
## 1.325468351 1.008002338 1.008002338           NaN           NaN 1.690892374
##           YAL014C      YAL015C      YAL016W      YAL017W      YAL018C      YAL019W
## 1.690892374           NaN 1.304086181           NaN           NaN           NaN
##           YAL020C      YAL021C      YAL022C      YAL023C      YAL024C      YAL025C
##           NaN           NaN           NaN           NaN           NaN           NaN
##           YAL026C      YAL027W      YAL028W      YAL029C      YAL030W      YAL031C
## 1.721241996           NaN           NaN           NaN 1.813099217 1.813099217
##           YAL032C      YAL033W      YAL034C      YAL034W-A      YAL035C-A      YAL035W
## 1.964167763 1.072412580 1.072412580 1.499158185           NA 1.499158185
```

##	YAL036C	YAL037W	YAL038W	YAL039C	YAL040C	YAL041W
##	1.499158185	NaN	1.329769645	0.756399046	1.643484740	0.131114514
##	YAL042W	YAL043C	YAL043C-A	YAL044C	YAL045C	YAL046C
##	0.898177963	0.898177963	NA	-0.215666828	0.368662424	0.188426995
##	YAL047C	YAL048C	YAL049C	YAL051W	YAL053W	YAL054C
##	0.981569134	0.419696832	0.461006642	1.477150348	0.817701734	0.817701734
##	YAL055W	YAL056W	YAL058C-A	YAL058W	YAL059W	YAL060W
##	0.761250199	NaN	NA	0.916730652	1.308586017	1.464538103
##	YAL061W	YAL062W	YAL063C	YAL064C-A	YAL064W	YAL065C
##	NaN	NaN	1.626975035	1.031827530	NaN	1.031827530
##	YAL067C	YAL068C	YAR002C-A	YAR002W	YAR003W	YAR007C
##	1.031827530	1.031827530	NaN	NaN	NaN	NaN
##	YAR008W	YAR009C	YAR010C	YAR014C	YAR015W	YAR018C
##	NaN	NA	NA	NaN	NaN	1.182889660
##	YAR019C	YAR020C	YAR023C	YAR027W	YAR028W	YAR029W
##	NaN	2.094359362	NaN	1.206599447	0.432943578	1.759942950
##	YAR030C	YAR031W	YAR033W	YAR035W	YAR042W	YAR044W
##	1.004389726	1.759942950	1.004389726	NaN	NaN	NaN
##	YAR047C	YAR050W	YAR053W	YAR060C	YAR061W	YAR062W
##	NaN	NaN	1.284267026	NaN	NaN	0.604057251
##	YAR064W	YAR066W	YAR068W	YAR069C	YAR070C	YAR071W
##	NaN	NaN	NaN	NaN	1.882809863	1.882809863
##	YAR073W	YAR075W	YBL001C	YBL002W	YBL003C	YBL004W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YBL005W	YBL005W-A	YBL005W-B	YBL006C	YBL007C	YBL008W
##	1.423294088	NA	NA	1.423294088	NaN	1.249324693
##	YBL009W	YBL010C	YBL011W	YBL012C	YBL013W	YBL014C
##	1.623446740	1.623446740	0.538646928	1.055222185	0.807492593	0.807492593
##	YBL015W	YBL016W	YBL017C	YBL018C	YBL019W	YBL020W
##	NaN	0.408808420	0.408808420	1.131072780	NaN	1.735549284
##	YBL021C	YBL022C	YBL023C	YBL024W	YBL025W	YBL026W
##	1.735549284	NaN	NaN	NaN	NaN	NaN
##	YBL027W	YBL028C	YBL029W	YBL030C	YBL031W	YBL032W
##	NaN	NaN	NaN	1.465628876	NaN	NaN
##	YBL033C	YBL034C	YBL035C	YBL036C	YBL037W	YBL038W
##	NaN	NaN	NaN	1.756809179	1.941694128	NaN
##	YBL039C	YBL040C	YBL041W	YBL042C	YBL043W	YBL044W
##	NaN	0.953624677	1.077918519	1.077918519	0.639623286	1.905154121
##	YBL045C	YBL046W	YBL047C	YBL048W	YBL049W	YBL050W
##	1.905154121	NaN	NaN	NaN	NaN	1.227487652
##	YBL051C	YBL052C	YBL053W	YBL054W	YBL055C	YBL056W
##	1.227487652	0.887170746	1.198416223	1.839762726	1.839762726	1.364657892
##	YBL057C	YBL058W	YBL059C-A	YBL059W	YBL060W	YBL061C
##	1.364657892	1.574543211	1.574543211	NaN	NaN	NaN
##	YBL062W	YBL063W	YBL064C	YBL065W	YBL066C	YBL067C
##	-0.084400085	NaN	NaN	3.397872753	1.459681168	3.397872753
##	YBL068W	YBL069W	YBL070C	YBL071C	YBL072C	YBL073W
##	NaN	0.904788963	NaN	0.904788963	NaN	1.058988845
##	YBL074C	YBL075C	YBL076C	YBL077W	YBL078C	YBL079W
##	NaN	1.058988845	0.779422660	0.120381785	0.120381785	NaN
##	YBL080C	YBL081W	YBL082C	YBL083C	YBL084C	YBL085W
##	NaN	NaN	NaN	NaN	0.946395303	NaN
##	YBL086C	YBL087C	YBL088C	YBL089W	YBL090W	YBL091C
##	NaN	0.940226991	1.382056023	1.201026196	0.148242997	0.148242997

##	YBL092W	YBL093C	YBL094C	YBL095W	YBL096C	YBL097W
##	NaN	NaN	0.553506691	NaN	0.553506691	NaN
##	YBL098W	YBL099W	YBL100C	YBL101C	YBL101W-A	YBL101W-B
##	NaN	1.277868206	NaN	1.331331068	NA	NA
##	YBL102W	YBL103C	YBL104C	YBL105C	YBL106C	YBL107C
##	2.886741413	2.886741413	1.333676011	1.628118979	NaN	1.365354682
##	YBL107W-A	YBL108W	YBL109W	YBL111C	YBL112C	YBL113C
##	0.581297805	1.982302986	0.727655006	0.727655006	0.727655006	0.727655006
##	YBR001C	YBR002C	YBR003W	YBR004C	YBR005W	YBR006W
##	1.468598139	NaN	NaN	NaN	NaN	NaN
##	YBR007C	YBR008C	YBR009C	YBR010W	YBR011C	YBR012C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YBR012W-A	YBR012W-B	YBR013C	YBR014C	YBR015C	YBR016W
##	NA	NA	NaN	1.254934386	NaN	NaN
##	YBR017C	YBR018C	YBR019C	YBR020W	YBR021W	YBR022W
##	1.016398709	NaN	NaN	NaN	1.634309214	NaN
##	YBR023C	YBR024W	YBR025C	YBR026C	YBR027C	YBR028C
##	1.179296177	1.179296177	1.359784401	1.462395361	1.462395361	0.862850153
##	YBR029C	YBR030W	YBR031W	YBR032W	YBR033W	YBR034C
##	2.257843791	2.257843791	0.442528378	2.086875833	0.238316274	0.754345047
##	YBR035C	YBR036C	YBR037C	YBR038W	YBR039W	YBR040W
##	NaN	0.934024413	NaN	NaN	1.746188860	NaN
##	YBR041W	YBR042C	YBR043C	YBR044C	YBR045C	YBR046C
##	1.194093693	1.051153055	1.976583224	NaN	NaN	0.087350946
##	YBR047W	YBR048W	YBR049C	YBR050C	YBR051W	YBR052C
##	0.087350946	NaN	1.403054056	NaN	1.403054056	1.048939683
##	YBR053C	YBR054W	YBR055C	YBR056W	YBR057C	YBR058C
##	1.159376970	NaN	NaN	NaN	NaN	NaN
##	YBR058C-A	YBR059C	YBR060C	YBR061C	YBR062C	YBR063C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YBR064W	YBR065C	YBR066C	YBR067C	YBR068C	YBR069C
##	NaN	0.940835550	2.162292207	2.685374396	NaN	1.634162759
##	YBR070C	YBR071W	YBR072W	YBR073W	YBR074W	YBR075W
##	NaN	NaN	NaN	NaN	0.371064945	NaN
##	YBR076W	YBR077C	YBR078W	YBR079C	YBR080C	YBR081C
##	2.330077413	NaN	NaN	NaN	NaN	NaN
##	YBR082C	YBR083W	YBR084C-A	YBR084W	YBR085C-A	YBR085W
##	2.999952175	1.359450872	1.768657672	1.908034480	NaN	1.768657672
##	YBR086C	YBR087W	YBR088C	YBR089C-A	YBR089W	YBR090C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YBR091C	YBR092C	YBR093C	YBR094W	YBR095C	YBR096W
##	NaN	NaN	1.278720835	1.278720835	2.531561197	2.531561197
##	YBR097W	YBR098W	YBR099C	YBR100W	YBR101C	YBR102C
##	NaN	NaN	NaN	NaN	2.327465935	NaN
##	YBR103W	YBR104W	YBR105C	YBR106W	YBR107C	YBR108W
##	NaN	NaN	NaN	NaN	1.479056631	1.479056631
##	YBR109C	YBR110W	YBR111C	YBR112C	YBR113W	YBR114W
##	NaN	NaN	0.916681315	NaN	0.916681315	NaN
##	YBR115C	YBR116C	YBR117C	YBR118W	YBR119W	YBR120C
##	NaN	1.851154009	1.851154009	1.851154009	NaN	NaN
##	YBR121C	YBR122C	YBR123C	YBR124W	YBR125C	YBR126C
##	1.216422020	NaN	0.700929201	NaN	NaN	NaN
##	YBR127C	YBR128C	YBR129C	YBR130C	YBR131W	YBR132C
##	1.026746600	1.882511942	NaN	0.724379210	0.724379210	1.837878845

##	YBR133C	YBR134W	YBR135W	YBR136W	YBR137W	YBR138C
##	NaN	1.837878845	NaN	0.968078793	0.660392880	1.899849293
##	YBR139W	YBR140C	YBR141C	YBR142W	YBR143C	YBR144C
##	1.899849293	NaN	0.869299054	0.869299054	1.265309786	1.379327310
##	YBR145W	YBR146W	YBR147W	YBR148W	YBR149W	YBR150C
##	1.379327310	NaN	NaN	NaN	NaN	NaN
##	YBR151W	YBR152W	YBR153W	YBR154C	YBR155W	YBR156C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YBR157C	YBR158W	YBR159W	YBR160W	YBR161W	YBR162C
##	NaN	NaN	NaN	2.886250275	NaN	NaN
##	YBR162W-A	YBR163W	YBR164C	YBR165W	YBR166C	YBR167C
##	NaN	NaN	1.493603898	1.493603898	0.825193083	1.358516281
##	YBR168W	YBR169C	YBR170C	YBR171W	YBR172C	YBR173C
##	1.358516281	0.618230117	0.790665831	0.790665831	0.679773292	0.307076322
##	YBR174C	YBR175W	YBR176W	YBR177C	YBR178W	YBR179C
##	NaN	0.307076322	NaN	NaN	1.164366692	1.039704219
##	YBR180W	YBR181C	YBR182C	YBR183W	YBR184W	YBR185C
##	1.039704219	NaN	1.118210596	1.118210596	0.524480556	1.678845594
##	YBR186W	YBR187W	YBR188C	YBR189W	YBR190W	YBR191W
##	1.678845594	0.506536177	NaN	NaN	NaN	NaN
##	YBR192W	YBR193C	YBR194W	YBR195C	YBR196C	YBR197C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YBR198C	YBR199W	YBR200W	YBR201W	YBR202W	YBR203W
##	1.290464240	1.290464240	1.393804000	NaN	NaN	NaN
##	YBR204C	YBR205W	YBR206W	YBR207W	YBR208C	YBR209W
##	1.273216915	1.273216915	1.273216915	NaN	NaN	NaN
##	YBR210W	YBR211C	YBR212W	YBR213W	YBR214W	YBR215W
##	1.513157172	1.693484620	1.693484620	0.749748253	0.457130012	0.964548550
##	YBR216C	YBR217W	YBR218C	YBR219C	YBR220C	YBR221C
##	0.465256475	0.465256475	0.216557641	NA	1.396139072	0.746194815
##	YBR222C	YBR223C	YBR224W	YBR225W	YBR226C	YBR227C
##	0.715297812	0.309047756	0.715297812	0.715297812	0.309047756	0.309047756
##	YBR228W	YBR229C	YBR230C	YBR231C	YBR232C	YBR233W
##	0.309047756	NaN	NaN	NaN	0.877382712	NaN
##	YBR234C	YBR235W	YBR236C	YBR237W	YBR238C	YBR239C
##	1.121270638	1.121270638	1.454629932	1.454629932	1.062856924	1.113152870
##	YBR240C	YBR241C	YBR242W	YBR243C	YBR244W	YBR245C
##	1.402682426	2.106263615	2.106263615	NaN	NaN	1.426654801
##	YBR246W	YBR247C	YBR248C	YBR249C	YBR250W	YBR251W
##	NaN	1.158113896	1.033124755	1.396012470	1.396012470	NaN
##	YBR252W	YBR253W	YBR254C	YBR255W	YBR256C	YBR257W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YBR258C	YBR259W	YBR260C	YBR261C	YBR262C	YBR263W
##	1.255379025	1.255379025	1.617667192	NaN	NaN	NaN
##	YBR264C	YBR265W	YBR266C	YBR267W	YBR268W	YBR269C
##	NaN	NaN	1.331551230	0.925875702	1.331551230	NaN
##	YBR270C	YBR271W	YBR272C	YBR273C	YBR274W	YBR275C
##	2.013119873	2.013119873	0.459188818	0.583270260	0.583270260	NaN
##	YBR276C	YBR277C	YBR278W	YBR279W	YBR280C	YBR281C
##	0.488395004	1.405588409	0.488395004	1.405588409	1.678482418	1.245442062
##	YBR282W	YBR283C	YBR284W	YBR285W	YBR286W	YBR287W
##	1.245442062	0.639515336	0.639515336	NaN	0.838586017	NaN
##	YBR288C	YBR289W	YBR290W	YBR291C	YBR292C	YBR293W
##	NaN	NaN	0.802805851	1.465964714	NaN	0.907094588

##	YBR294W	YBR295W	YBR296C	YBR297W	YBR298C	YBR299W
##	2.190682173	0.594202322	0.642373010	1.629439087	1.558689619	1.558689619
##	YBR300C	YBR301W	YCL001W	YCL002C	YCL004W	YCL005W
##	1.341412443	0.753230923	NaN	NaN	NaN	NaN
##	YCL006C	YCL007C	YCL008C	YCL009C	YCL010C	YCL011C
##	NA	NaN	NaN	NaN	NaN	NaN
##	YCL012W	YCL014W	YCL016C	YCL017C	YCL018W	YCL019W
##	NA	NaN	NaN	NaN	NaN	NA
##	YCL020W	YCL022C	YCL023C	YCL024W	YCL025C	YCL027W
##	NA	NA	NaN	NaN	NaN	1.512184630
##	YCL028W	YCL029C	YCL030C	YCL031C	YCL032W	YCL033C
##	1.478716876	1.478716876	1.138784376	0.655611413	0.871298041	0.871298041
##	YCL034W	YCL035C	YCL036W	YCL037C	YCL038C	YCL039W
##	NaN	NaN	NaN	NaN	2.082932025	1.955223127
##	YCL040W	YCL041C	YCL042W	YCL043C	YCL044C	YCL045C
##	1.307115464	1.955223127	1.307115464	1.955223127	1.307115464	NaN
##	YCL046W	YCL047C	YCL048W	YCL049C	YCL050C	YCL051W
##	1.784575613	1.784575613	0.769329111	0.769329111	1.751397171	NaN
##	YCL052C	YCL054W	YCL055W	YCL056C	YCL057W	YCL058C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YCL059C	YCL061C	YCL063W	YCL064C	YCL065W	YCL066W
##	0.528808559	NaN	NaN	NaN	NaN	NaN
##	YCL067C	YCL068C	YCL069W	YCL073C	YCL074W	YCR001W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YCR002C	YCR003W	YCR004C	YCR005C	YCR006C	YCR007C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YCR008W	YCR009C	YCR010C	YCR011C	YCR012W	YCR013C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YCR014C	YCR015C	YCR016W	YCR017C	YCR018C	YCR018C-A
##	NaN	NaN	NaN	NaN	0.621094299	NaN
##	YCR019W	YCR020C	YCR020C-A	YCR021C	YCR022C	YCR023C
##	NaN	0.724531395	1.183316641	1.880584220	NaN	1.130547204
##	YCR024C	YCR024C-A	YCR025C	YCR026C	YCR027C	YCR028C
##	NaN	1.126736560	0.546301711	1.485682657	0.304764291	2.577172590
##	YCR030C	YCR031C	YCR032W	YCR033W	YCR034W	YCR035C
##	NaN	NaN	NaN	1.096422413	NaN	2.749467402
##	YCR036W	YCR037C	YCR038C	YCR039C	YCR040W	YCR041W
##	2.749467402	NaN	1.126108019	1.772801529	1.772801529	1.772801529
##	YCR042C	YCR043C	YCR044C	YCR045C	YCR046C	YCR047C
##	1.271814038	0.768110095	NaN	NaN	NaN	NaN
##	YCR048W	YCR049C	YCR050C	YCR051W	YCR052W	YCR053W
##	NaN	NaN	NaN	NaN	1.958432366	NaN
##	YCR054C	YCR057C	YCR059C	YCR060W	YCR061W	YCR062W
##	NaN	1.003703312	NaN	NaN	NaN	NA
##	YCR063W	YCR064C	YCR065W	YCR066W	YCR067C	YCR068W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YCR069W	YCR071C	YCR072C	YCR073C	YCR075C	YCR076C
##	0.909432676	NaN	0.201791765	NaN	NaN	1.089416723
##	YCR077C	YCR079W	YCR081W	YCR082W	YCR083W	YCR084C
##	0.378089026	0.378089026	0.518700633	0.423910070	1.030838970	NaN
##	YCR085W	YCR086W	YCR087C-A	YCR087W	YCR088W	YCR089W
##	NaN	1.451674474	1.192670815	1.451674474	1.192670815	0.649699604
##	YCR090C	YCR091W	YCR092C	YCR093W	YCR094W	YCR095C
##	0.573488919	NaN	NaN	NaN	NaN	0.624753704

##	YCR096C	YCR098C	YCR099C	YCR100C	YCR101C	YCR102C
##	1.358335660	NaN	2.509250651	2.509250651	0.934950054	0.743106508
##	YCR103C	YCR104W	YCR105W	YCR106W	YCR107W	YDL001W
##	NA	NaN	0.248155701	0.618392197	0.358217409	NaN
##	YDL002C	YDL003W	YDL004W	YDL005C	YDL006W	YDL007W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDL008W	YDL009C	YDL010W	YDL011C	YDL012C	YDL013W
##	2.105264850	2.105264850	NaN	2.105264850	NaN	NaN
##	YDL014W	YDL015C	YDL016C	YDL017W	YDL018C	YDL019C
##	NaN	NaN	1.781866406	NaN	NaN	1.335829832
##	YDL020C	YDL021W	YDL022W	YDL023C	YDL024C	YDL025C
##	1.571864841	NaN	NaN	NaN	NaN	0.568715452
##	YDL026W	YDL027C	YDL028C	YDL029W	YDL030W	YDL031W
##	1.158727789	0.792404528	1.158727789	0.561631902	NaN	0.230601400
##	YDL032W	YDL033C	YDL034W	YDL035C	YDL036C	YDL037C
##	NaN	0.230601400	0.974125600	NaN	0.974125600	0.617435489
##	YDL038C	YDL039C	YDL040C	YDL041W	YDL042C	YDL043C
##	1.166817397	1.166817397	1.249747280	1.132832977	NaN	1.132832977
##	YDL044C	YDL045C	YDL045W-A	YDL046W	YDL047W	YDL048C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDL049C	YDL050C	YDL051W	YDL052C	YDL053C	YDL054C
##	NaN	NaN	NaN	NaN	NaN	2.000723643
##	YDL055C	YDL056W	YDL057W	YDL058W	YDL059C	YDL060W
##	NaN	0.638910649	NaN	1.699840879	1.699840879	NaN
##	YDL061C	YDL062W	YDL063C	YDL064W	YDL065C	YDL066W
##	NaN	NaN	NaN	1.188856450	1.188856450	2.054063564
##	YDL067C	YDL068W	YDL069C	YDL070W	YDL071C	YDL072C
##	2.054063564	1.132086095	0.605730150	1.222051056	1.132086095	1.222051056
##	YDL073W	YDL074C	YDL075W	YDL076C	YDL077C	YDL078C
##	1.638597756	1.638597756	1.151178763	1.151178763	0.966741011	0.922008044
##	YDL079C	YDL080C	YDL081C	YDL082W	YDL083C	YDL084W
##	1.062166291	0.996419958	NaN	1.997784025	1.997784025	1.082989013
##	YDL085W	YDL086W	YDL087C	YDL088C	YDL089W	YDL090C
##	1.017009185	0.695258782	0.695258782	1.578187940	2.023510521	2.023510521
##	YDL091C	YDL092W	YDL093W	YDL094C	YDL095W	YDL096C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDL097C	YDL098C	YDL099W	YDL100C	YDL101C	YDL102W
##	NaN	0.620196083	NaN	NaN	NaN	NaN
##	YDL103C	YDL104C	YDL105W	YDL106C	YDL107W	YDL108W
##	NaN	2.301945604	NaN	NaN	1.661158290	1.405663871
##	YDL109C	YDL110C	YDL111C	YDL112W	YDL113C	YDL114W
##	1.405663871	NaN	1.252888741	NaN	NaN	2.537965423
##	YDL115C	YDL116W	YDL117W	YDL118W	YDL119C	YDL120W
##	2.537965423	0.951641632	NaN	NaN	NaN	2.023069525
##	YDL121C	YDL122W	YDL123W	YDL124W	YDL125C	YDL126C
##	2.023069525	NaN	2.079312467	3.443790497	3.443790497	NaN
##	YDL127W	YDL128W	YDL129W	YDL130W	YDL131W	YDL132W
##	NaN	2.081772662	2.308212865	NaN	1.931757370	NaN
##	YDL133W	YDL134C	YDL135C	YDL136W	YDL137W	YDL138W
##	NaN	3.336698052	NaN	2.334697289	1.215489319	NaN
##	YDL139C	YDL140C	YDL141W	YDL142C	YDL143W	YDL144C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDL145C	YDL146W	YDL147W	YDL148C	YDL149W	YDL150W
##	NaN	NaN	2.621485837	2.621485837	NaN	NaN

##	YDL151C	YDL152W	YDL153C	YDL154W	YDL155W	YDL156W
##	NaN	NaN	NaN	1.368531848	0.727129188	NaN
##	YDL157C	YDL158C	YDL159W	YDL160C	YDL161W	YDL162C
##	NaN	NaN	0.938743994	0.938743994	0.868711116	NaN
##	YDL163W	YDL164C	YDL165W	YDL166C	YDL167C	YDL168W
##	NaN	0.868711116	NaN	NaN	NaN	0.988508569
##	YDL169C	YDL170W	YDL171C	YDL172C	YDL173W	YDL174C
##	0.988508569	1.976078739	1.976078739	2.128839037	NaN	NaN
##	YDL175C	YDL176W	YDL177C	YDL178W	YDL179W	YDL180W
##	0.661662317	0.871307200	0.871307200	1.960722354	NaN	1.003047632
##	YDL181W	YDL182W	YDL183C	YDL184C	YDL185W	YDL186W
##	2.367989158	NaN	1.680208172	0.932470665	NaN	NaN
##	YDL187C	YDL188C	YDL189W	YDL190C	YDL191W	YDL192W
##	NaN	NaN	2.156623910	2.156623910	NaN	NaN
##	YDL193W	YDL194W	YDL195W	YDL196W	YDL197C	YDL198C
##	1.205710954	1.591412647	NaN	NaN	NaN	1.450130254
##	YDL199C	YDL200C	YDL201W	YDL202W	YDL203C	YDL204W
##	NaN	NaN	NaN	1.790834109	1.790834109	NaN
##	YDL205C	YDL206W	YDL207W	YDL208W	YDL209C	YDL210W
##	NaN	0.821654644	NaN	2.324250353	2.324250353	1.801304493
##	YDL211C	YDL212W	YDL213C	YDL214C	YDL215C	YDL216C
##	NaN	NaN	NaN	NaN	NaN	1.777818068
##	YDL217C	YDL218W	YDL219W	YDL220C	YDL221W	YDL222C
##	1.372546737	2.419519206	NaN	NaN	1.651138586	1.651138586
##	YDL223C	YDL224C	YDL225W	YDL226C	YDL227C	YDL228C
##	NaN	1.461103500	NaN	NaN	NaN	1.444378696
##	YDL229W	YDL230W	YDL231C	YDL232W	YDL233W	YDL234C
##	2.254409471	1.781529929	1.781529929	0.914491542	1.644050459	1.644050459
##	YDL235C	YDL236W	YDL237W	YDL238C	YDL239C	YDL240W
##	2.097390968	NaN	3.121857341	3.121857341	2.132316458	NaN
##	YDL241W	YDL242W	YDL243C	YDL244W	YDL245C	YDL246C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDL247W	YDR001C	YDR002W	YDR003W	YDR004W	YDR005C
##	1.662766025	NaN	NaN	NaN	2.254626542	NaN
##	YDR006C	YDR007W	YDR008C	YDR009W	YDR010C	YDR011W
##	NaN	NaN	0.614445465	0.614445465	NaN	NaN
##	YDR012W	YDR013W	YDR014W	YDR015C	YDR016C	YDR017C
##	1.210492309	NaN	0.980793590	NaN	0.626222852	NaN
##	YDR018C	YDR019C	YDR020C	YDR021W	YDR022C	YDR023W
##	0.571076305	1.265863601	0.729257572	0.729257572	1.707339975	NaN
##	YDR024W	YDR025W	YDR026C	YDR027C	YDR028C	YDR029W
##	1.025451964	1.025451964	NaN	2.717705096	1.608867031	1.608867031
##	YDR030C	YDR031W	YDR032C	YDR033W	YDR034C	YDR034C-A
##	1.068918844	1.068918844	1.041568240	1.432419084	NaN	0.673339985
##	YDR034C-C	YDR034C-D	YDR035W	YDR036C	YDR037W	YDR038C
##	NA	NA	0.617416442	NaN	NaN	0.977979992
##	YDR039C	YDR040C	YDR041W	YDR042C	YDR043C	YDR044W
##	1.859807824	1.520540532	1.520540532	NaN	NaN	1.355328998
##	YDR045C	YDR046C	YDR047W	YDR048C	YDR049W	YDR050C
##	1.409181522	0.337544118	0.337544118	NaN	0.603167479	0.621312334
##	YDR051C	YDR052C	YDR053W	YDR054C	YDR055W	YDR056C
##	NaN	0.908794898	NaN	0.506782039	0.506782039	1.083064488
##	YDR057W	YDR058C	YDR059C	YDR060W	YDR061W	YDR062W
##	1.083064488	NaN	4.010384301	4.010384301	NaN	2.564922004



##	YDR063W	YDR064W	YDR065W	YDR066C	YDR067C	YDR068W
##	1.223667459	1.596405720	NaN	NaN	NaN	NaN
##	YDR069C	YDR070C	YDR071C	YDR072C	YDR073W	YDR074W
##	2.556830744	1.875297988	NaN	NaN	NaN	1.279781079
##	YDR075W	YDR076W	YDR077W	YDR078C	YDR079W	YDR080W
##	1.522452974	1.845162388	1.266381419	1.510585306	1.510585306	0.916414792
##	YDR081C	YDR082W	YDR083W	YDR084C	YDR085C	YDR086C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR087C	YDR088C	YDR089W	YDR090C	YDR091C	YDR092W
##	NaN	1.160397903	1.855091230	NaN	NaN	NaN
##	YDR093W	YDR094W	YDR095C	YDR096W	YDR097C	YDR098C
##	NaN	NaN	NaN	NaN	NaN	1.230349488
##	YDR098C-A	YDR098C-B	YDR099W	YDR100W	YDR101C	YDR102C
##	NA	NA	0.710312484	1.392667833	0.697132431	2.860286829
##	YDR103W	YDR104C	YDR105C	YDR106W	YDR107C	YDR108W
##	2.860286829	0.511763326	0.879863426	0.879863426	0.671302692	0.671302692
##	YDR109C	YDR110W	YDR111C	YDR112W	YDR113C	YDR114C
##	NaN	NaN	1.599799364	2.317250317	NaN	1.381348085
##	YDR115W	YDR116C	YDR117C	YDR118W	YDR119W	YDR120C
##	NaN	2.561540801	NaN	NaN	1.236883922	NaN
##	YDR121W	YDR122W	YDR123C	YDR124W	YDR125C	YDR126W
##	NaN	0.862612892	0.703863153	0.703863153	1.293380127	1.293380127
##	YDR127W	YDR128W	YDR129C	YDR130C	YDR131C	YDR132C
##	NaN	NaN	3.003184964	NaN	0.720266901	NaN
##	YDR133C	YDR134C	YDR135C	YDR136C	YDR137W	YDR138W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR139C	YDR140W	YDR141C	YDR142C	YDR143C	YDR144C
##	NaN	NaN	1.822045118	1.218048876	0.811185241	NaN
##	YDR145W	YDR146C	YDR147W	YDR148C	YDR149C	YDR150W
##	NaN	NaN	NaN	NaN	0.767822408	NaN
##	YDR151C	YDR152W	YDR153C	YDR154C	YDR155C	YDR156W
##	2.440255435	2.440255435	NaN	NaN	NaN	NaN
##	YDR157W	YDR158W	YDR159W	YDR160W	YDR161W	YDR162C
##	NaN	NaN	1.101768197	NaN	1.123042558	1.437962622
##	YDR163W	YDR164C	YDR165W	YDR166C	YDR167W	YDR168W
##	1.437962622	2.820318533	2.820318533	NaN	NaN	NaN
##	YDR169C	YDR170C	YDR171W	YDR172W	YDR173C	YDR174W
##	1.658254840	0.554097005	1.241266705	NaN	0.821723678	0.821723678
##	YDR175C	YDR176W	YDR177W	YDR178W	YDR179C	YDR179W-A
##	1.616675524	1.616675524	NaN	1.144066691	NaN	NaN
##	YDR180W	YDR181C	YDR182W	YDR183W	YDR184C	YDR185C
##	NaN	NaN	NaN	NaN	0.713320266	NaN
##	YDR186C	YDR187C	YDR188W	YDR189W	YDR190C	YDR191W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR192C	YDR193W	YDR194C	YDR195W	YDR196C	YDR197W
##	NaN	1.733598764	0.852567738	0.852567738	0.578640932	0.578640932
##	YDR198C	YDR199W	YDR200C	YDR201W	YDR202C	YDR203W
##	0.555007895	0.555007895	1.091418490	1.091418490	NaN	0.884001469
##	YDR204W	YDR205W	YDR206W	YDR207C	YDR208W	YDR209C
##	NaN	NaN	1.277083017	0.832027965	0.832027965	1.109758516
##	YDR210W	YDR210W-A	YDR210W-B	YDR210W-C	YDR210W-D	YDR211W
##	0.784213815	NA	NA	NA	NA	1.806359778
##	YDR212W	YDR213W	YDR214W	YDR215C	YDR216W	YDR217C
##	1.285740734	NaN	0.760445424	1.104474175	1.104474175	NaN

##	YDR218C	YDR219C	YDR220C	YDR221W	YDR222W	YDR223W
##	1.452276353	1.205021091	NaN	1.205021091	NaN	1.072394538
##	YDR224C	YDR225W	YDR226W	YDR227W	YDR228C	YDR229W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR230W	YDR231C	YDR232W	YDR233C	YDR234W	YDR235W
##	1.238230407	NaN	NaN	NaN	NaN	2.842218325
##	YDR236C	YDR237W	YDR238C	YDR239C	YDR240C	YDR241W
##	NaN	NaN	0.832228110	NaN	0.407436342	NaN
##	YDR242W	YDR243C	YDR244W	YDR245W	YDR246W	YDR247W
##	NaN	NaN	NaN	0.452393984	NaN	0.951936750
##	YDR248C	YDR249C	YDR250C	YDR251W	YDR252W	YDR253C
##	1.980718954	1.094075834	0.624951455	0.624951455	1.304683976	2.203837987
##	YDR254W	YDR255C	YDR256C	YDR257C	YDR258C	YDR259C
##	2.203837987	0.731365815	0.787417476	1.136318096	0.974816441	1.417085334
##	YDR260C	YDR261C	YDR261C-C	YDR261C-D	YDR261W-A	YDR261W-B
##	0.978164482	NaN	NA	NA	NA	NA
##	YDR262W	YDR263C	YDR264C	YDR265W	YDR266C	YDR267C
##	1.819650802	NaN	2.113411529	2.113411529	3.064278066	NaN
##	YDR268W	YDR269C	YDR270W	YDR271C	YDR272W	YDR273W
##	NaN	0.613007471	0.456636611	0.613007471	0.613007471	1.124376588
##	YDR274C	YDR275W	YDR276C	YDR277C	YDR278C	YDR279W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR280W	YDR281C	YDR282C	YDR283C	YDR284C	YDR285W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR286C	YDR287W	YDR288W	YDR289C	YDR290W	YDR291W
##	1.027306123	1.027306123	1.033598801	0.332764258	1.454137892	1.454137892
##	YDR292C	YDR293C	YDR294C	YDR295C	YDR296W	YDR297W
##	0.426526778	0.747978145	1.998019003	1.066884444	1.066884444	NaN
##	YDR298C	YDR299W	YDR300C	YDR301W	YDR302W	YDR303C
##	0.830003685	0.830003685	NaN	NaN	0.943206049	1.529248142
##	YDR304C	YDR305C	YDR306C	YDR307W	YDR308C	YDR309C
##	0.966995787	1.561125680	1.142363010	NaN	NaN	NaN
##	YDR310C	YDR311W	YDR312W	YDR313C	YDR314C	YDR315C
##	NaN	NaN	NaN	2.028192942	NaN	1.432061785
##	YDR316W	YDR316W-A	YDR316W-B	YDR317W	YDR318W	YDR319C
##	1.432061785	NA	NA	NaN	3.256844830	2.874780862
##	YDR320C	YDR321W	YDR322C-A	YDR322W	YDR323C	YDR324C
##	1.390022056	1.390022056	NaN	1.787430969	NaN	NaN
##	YDR325W	YDR326C	YDR327W	YDR328C	YDR329C	YDR330W
##	NaN	NaN	NaN	1.449949723	NaN	NaN
##	YDR331W	YDR332W	YDR333C	YDR334W	YDR335W	YDR336W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR337W	YDR338C	YDR339C	YDR340W	YDR341C	YDR342C
##	0.916824294	1.045119636	1.245561947	1.245561947	0.827300218	2.436425125
##	YDR343C	YDR344C	YDR345C	YDR346C	YDR347W	YDR348C
##	0.460518076	1.027642510	NaN	1.511060725	1.511060725	1.489324877
##	YDR349C	YDR350C	YDR351W	YDR352W	YDR353W	YDR354W
##	1.170617748	1.190789734	1.190789734	NaN	1.371955986	1.351979792
##	YDR355C	YDR356W	YDR357C	YDR358W	YDR359C	YDR360W
##	NaN	1.557724205	2.167244709	2.167244709	NaN	1.540379399
##	YDR361C	YDR362C	YDR363W	YDR364C	YDR365C	YDR365W-A
##	2.325020576	NaN	NaN	1.384628736	1.348095776	NA
##	YDR365W-B	YDR366C	YDR367W	YDR368W	YDR369C	YDR370C
##	NA	0.509554767	1.348095776	0.509554767	NaN	NaN

##	YDR371W	YDR372C	YDR373W	YDR374C	YDR375C	YDR376W
##	NaN	NaN	NaN	NaN	1.291547313	1.291547313
##	YDR377W	YDR378C	YDR379W	YDR380W	YDR381W	YDR382W
##	3.291445296	NaN	NaN	0.601550691	2.686645993	0.855786326
##	YDR383C	YDR384C	YDR385W	YDR386W	YDR387C	YDR388W
##	NaN	NaN	NaN	NaN	0.842982949	0.842982949
##	YDR389W	YDR390C	YDR391C	YDR392W	YDR393W	YDR394W
##	NaN	1.137769844	1.132964837	1.132964837	2.068760359	1.360968387
##	YDR395W	YDR396W	YDR397C	YDR398W	YDR399W	YDR400W
##	1.077776028	NaN	NaN	NaN	NaN	NaN
##	YDR401W	YDR402C	YDR403W	YDR404C	YDR405W	YDR406W
##	2.342026365	NaN	NaN	1.455674653	1.455674653	NaN
##	YDR407C	YDR408C	YDR409W	YDR410C	YDR411C	YDR412W
##	1.883228561	NaN	NaN	1.288970737	1.346372299	1.346372299
##	YDR413C	YDR414C	YDR415C	YDR416W	YDR417C	YDR418W
##	1.339115547	1.273857169	1.146220954	1.146220954	NaN	0.940453131
##	YDR419W	YDR420W	YDR421W	YDR422C	YDR423C	YDR424C
##	NaN	NaN	NaN	1.609617159	1.476174028	0.886498578
##	YDR425W	YDR426C	YDR427W	YDR428C	YDR429C	YDR430C
##	0.886498578	NaN	NaN	0.871536180	0.497464771	0.007462628
##	YDR431W	YDR432W	YDR433W	YDR434W	YDR435C	YDR436W
##	0.497464771	0.007462628	0.007462628	1.974136008	0.901345178	0.901345178
##	YDR437W	YDR438W	YDR439W	YDR440W	YDR441C	YDR442W
##	0.331765470	1.143608343	0.488228330	NaN	1.706471114	1.706471114
##	YDR443C	YDR444W	YDR445C	YDR446W	YDR447C	YDR448W
##	0.626924693	0.626924693	0.626140606	1.782200753	0.955271334	0.955271334
##	YDR449C	YDR450W	YDR451C	YDR452W	YDR453C	YDR454C
##	NaN	NaN	NaN	NaN	NaN	1.064846762
##	YDR455C	YDR456W	YDR457W	YDR458C	YDR459C	YDR460W
##	2.057238186	1.064846762	2.057238186	NaN	1.765675413	1.765675413
##	YDR461W	YDR462W	YDR463W	YDR464W	YDR465C	YDR466W
##	NaN	1.088119310	0.791594046	NaN	0.142923296	0.142923296
##	YDR467C	YDR468C	YDR469W	YDR470C	YDR471W	YDR472W
##	NaN	0.917824869	0.917824869	0.890853927	0.890853927	NaN
##	YDR473C	YDR474C	YDR475C	YDR476C	YDR477W	YDR478W
##	1.271256085	NaN	1.318327557	NaN	NaN	0.918435715
##	YDR479C	YDR480W	YDR481C	YDR482C	YDR483W	YDR484W
##	NaN	NaN	1.871948708	0.667603661	0.667603661	0.940981070
##	YDR485C	YDR486C	YDR487C	YDR488C	YDR489W	YDR490C
##	0.685446959	0.223953019	1.275549544	1.356035227	1.356035227	0.905940928
##	YDR491C	YDR492W	YDR493W	YDR494W	YDR495C	YDR496C
##	0.698923917	0.905940928	0.698923917	0.671496042	1.404613500	0.917325841
##	YDR497C	YDR498C	YDR499W	YDR500C	YDR501W	YDR502C
##	1.209279406	NaN	NaN	NaN	NaN	1.021248541
##	YDR503C	YDR504C	YDR505C	YDR506C	YDR507C	YDR508C
##	NaN	0.929950296	0.929950296	1.237871045	NaN	NaN
##	YDR509W	YDR510W	YDR511W	YDR512C	YDR513W	YDR514C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR515W	YDR516C	YDR517W	YDR518W	YDR519W	YDR520C
##	NaN	NaN	NaN	NaN	2.515901380	1.600249342
##	YDR521W	YDR522C	YDR523C	YDR524C	YDR525W	YDR526C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YDR527W	YDR528W	YDR529C	YDR530C	YDR531W	YDR532C
##	NaN	NaN	NaN	NaN	NaN	0.913491199

##	YDR533C	YDR534C	YDR535C	YDR536W	YDR537C	YDR538W
##	NaN	0.789838280	1.409767859	1.409767859	1.753799901	NaN
##	YDR539W	YDR540C	YDR541C	YDR542W	YDR543C	YDR544C
##	1.753799901	1.937268424	NaN	NaN	1.171274943	0.451744078
##	YDR545W	YEL001C	YEL002C	YEL003W	YEL004W	YEL005C
##	0.451744078	2.096196086	1.486362058	1.493658197	0.773425269	0.773425269
##	YEL006W	YEL007W	YEL008W	YEL009C	YEL010W	YEL011W
##	0.542300255	NaN	0.846951061	0.846951061	1.125715738	NaN
##	YEL012W	YEL013W	YEL014C	YEL015W	YEL016C	YEL017C-A
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YEL017W	YEL018W	YEL019C	YEL020C	YEL020W-A	YEL021W
##	NaN	NaN	NaN	1.861266865	1.527639214	1.527639214
##	YEL022W	YEL023C	YEL024W	YEL025C	YEL026W	YEL027W
##	3.494787122	3.494787122	1.774936092	1.774936092	NaN	1.667533746
##	YEL028W	YEL029C	YEL030W	YEL031W	YEL032W	YEL033W
##	1.988577291	1.988577291	1.300751757	NaN	NaN	1.253142257
##	YEL034W	YEL035C	YEL036C	YEL037C	YEL038W	YEL039C
##	1.253142257	1.253142257	1.270034391	1.469149884	NaN	NaN
##	YEL040W	YEL041W	YEL042W	YEL043W	YEL044W	YEL045C
##	NaN	1.168771316	NaN	1.512589826	NaN	NaN
##	YEL046C	YEL047C	YEL048C	YEL049W	YEL050C	YEL051W
##	NaN	NaN	NaN	1.317089638	NaN	0.552842184
##	YEL052W	YEL053C	YEL054C	YEL055C	YEL056W	YEL057C
##	1.231673213	1.231673213	1.280380695	NaN	0.792422061	0.792422061
##	YEL058W	YEL059C-A	YEL059W	YEL060C	YEL061C	YEL062W
##	2.602338548	2.602338548	1.218781855	1.218781855	NaN	0.933838047
##	YEL063C	YEL064C	YEL065W	YEL066W	YEL067C	YEL068C
##	0.933838047	1.062546897	0.716095568	NaN	0.716095568	NaN
##	YEL069C	YEL070W	YEL071W	YEL072W	YEL073C	YEL074W
##	NaN	1.702017328	1.780562931	1.330932932	NaN	3.524102400
##	YEL075C	YEL076C	YEL076C-A	YEL076W-C	YEL077C	YER001W
##	3.524102400	NA	NA	NA	NaN	NaN
##	YER002W	YER003C	YER004W	YER005W	YER006W	YER007C-A
##	1.338366910	NaN	NaN	1.295541717	NaN	NaN
##	YER007W	YER008C	YER009W	YER010C	YER011W	YER012W
##	0.941958632	1.616005889	1.616005889	0.975184559	1.632991331	NaN
##	YER013W	YER014W	YER015W	YER016W	YER017C	YER018C
##	1.068602503	NaN	1.118875163	1.946889031	NaN	NaN
##	YER019C-A	YER019W	YER020W	YER021W	YER022W	YER023W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YER024W	YER025W	YER026C	YER027C	YER028C	YER029C
##	1.605542445	1.702945650	NaN	0.791868253	NaN	0.408917317
##	YER030W	YER031C	YER032W	YER033C	YER034W	YER035W
##	0.408917317	0.401665416	0.401665416	0.490109296	0.490109296	0.677506732
##	YER036C	YER037W	YER038C	YER039C	YER040W	YER041W
##	NaN	NaN	0.723451697	NaN	NaN	0.920503241
##	YER042W	YER043C	YER044C	YER044C-A	YER045C	YER046W
##	2.208047818	NaN	1.885376533	1.293362944	NaN	NaN
##	YER047C	YER048C	YER049W	YER050C	YER051W	YER052C
##	NaN	0.447114071	1.282418779	1.035385189	1.035385189	0.949434718
##	YER053C	YER053C-A	YER054C	YER055C	YER056C	YER056C-A
##	0.794247708	NA	1.227475300	NaN	NaN	NaN
##	YER057C	YER058W	YER059W	YER060W	YER060W-A	YER061C
##	NaN	NaN	NaN	NaN	1.334608545	1.350323368

##	YER062C	YER063W	YER064C	YER065C	YER066C-A	YER066W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YER067W	YER068W	YER069W	YER070W	YER071C	YER072W
##	NaN	NaN	1.760078368	NaN	NaN	NaN
##	YER073W	YER074W	YER075C	YER076C	YER077C	YER078C
##	NaN	NaN	NaN	NaN	2.844752093	NaN
##	YER079W	YER080W	YER081W	YER082C	YER083C	YER084W
##	NaN	0.660692367	NaN	NaN	1.160763820	NaN
##	YER085C	YER086W	YER087C-A	YER087W	YER088C	YER089C
##	0.498125937	0.498125937	NaN	2.108553502	NaN	NaN
##	YER090W	YER091C	YER092W	YER093C	YER093C-A	YER094C
##	NaN	0.842578285	NaN	NaN	NaN	NaN
##	YER095W	YER096W	YER097W	YER098W	YER099C	YER100W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YER101C	YER102W	YER103W	YER104W	YER105C	YER106W
##	NaN	NaN	NaN	NaN	1.060939845	1.060939845
##	YER107C	YER109C	YER110C	YER111C	YER112W	YER113C
##	NaN	0.394412685	1.709507628	NaN	NaN	NaN
##	YER114C	YER115C	YER116C	YER117W	YER118C	YER119C
##	0.979683648	NaN	0.925076685	0.925076685	NaN	NaN
##	YER119C-A	YER120W	YER121W	YER122C	YER123W	YER124C
##	NaN	NaN	NaN	1.908564927	1.908564927	NaN
##	YER125W	YER126C	YER127W	YER128W	YER129W	YER130C
##	NaN	NaN	NaN	1.034843381	NaN	NaN
##	YER131W	YER132C	YER133W	YER134C	YER135C	YER136W
##	NaN	NaN	1.079708293	NaN	0.563665736	NaN
##	YER137C	YER137C-A	YER138C	YER139C	YER140W	YER141W
##	NaN	NA	NA	0.494595981	0.494595981	0.493172453
##	YER142C	YER143W	YER144C	YER145C	YER146W	YER147C
##	1.337386098	1.337386098	1.233875984	NaN	NaN	1.005182874
##	YER148W	YER149C	YER150W	YER151C	YER152C	YER153C
##	1.005182874	0.637859014	0.637859014	2.032973108	2.435749305	2.435749305
##	YER154W	YER155C	YER156C	YER157W	YER158C	YER159C
##	2.435749305	2.115979161	1.013098447	1.013098447	1.690022135	1.010997513
##	YER159C-A	YER160C	YER161C	YER162C	YER163C	YER164W
##	NA	NA	1.089097755	NaN	NaN	NaN
##	YER165W	YER166W	YER167W	YER168C	YER169W	YER170W
##	1.915515299	2.561487473	NaN	NaN	NaN	NaN
##	YER171W	YER172C	YER173W	YER174C	YER175C	YER176W
##	2.959132923	0.687248541	0.687248541	0.867306420	1.000621235	1.000621235
##	YER177W	YER178W	YER179W	YER180C	YER181C	YER182W
##	NaN	NaN	NaN	2.498311750	NaN	NaN
##	YER183C	YER184C	YER185W	YER186C	YER187W	YER187W-A
##	NaN	1.134838146	1.134838146	1.244799772	1.104131866	NA
##	YER188W	YER189W	YER190W	YFL001W	YFL002C	YFL002W-A
##	2.001645609	NaN	NaN	1.009038230	1.009038230	NA
##	YFL002W-B	YFL003C	YFL004W	YFL005W	YFL006W	YFL007W
##	NA	1.169317637	1.416103990	1.299277538	NaN	NaN
##	YFL008W	YFL009W	YFL010C	YFL010W-A	YFL011W	YFL012W
##	NaN	NaN	NaN	0.714172370	NaN	0.794831302
##	YFL013C	YFL013W-A	YFL014W	YFL015C	YFL016C	YFL017C
##	0.794831302	NaN	0.439945197	0.439945197	0.345600327	0.654073179
##	YFL017W-A	YFL018C	YFL019C	YFL020C	YFL021W	YFL022C
##	0.969817196	0.969817196	0.990247788	NaN	NaN	NaN

##	YFL023W	YFL024C	YFL025C	YFL026W	YFL027C	YFL028C
##	NaN	NaN	1.717796172	NaN	NaN	NaN
##	YFL029C	YFL030W	YFL031W	YFL032W	YFL033C	YFL034C-B
##	NaN	NaN	NaN	NaN	NaN	0.997961434
##	YFL034W	YFL036W	YFL037W	YFL038C	YFL039C	YFL040W
##	NaN	NaN	NaN	NaN	NaN	0.754223748
##	YFL041W	YFL042C	YFL043C	YFL044C	YFL045C	YFL046W
##	NaN	NaN	NA	0.832061733	NaN	1.257071627
##	YFL047W	YFL048C	YFL049W	YFL050C	YFL051C	YFL052W
##	1.193357531	1.193357531	NaN	NaN	1.588371580	NaN
##	YFL053W	YFL054C	YFL055W	YFL056C	YFL057C	YFL058W
##	1.072779457	1.072779457	1.167861193	1.670532069	1.670532069	1.235424337
##	YFL059W	YFL060C	YFL061W	YFL062W	YFL063W	YFL064C
##	1.057498278	1.057498278	1.358092610	1.166871666	1.572365546	1.572365546
##	YFL065C	YFL066C	YFL067W	YFR001W	YFR002W	YFR003C
##	1.572365546	0.929031504	1.187082349	NaN	1.040752393	1.097381036
##	YFR004W	YFR005C	YFR006W	YFR007W	YFR008W	YFR009W
##	1.097381036	0.584217276	0.584217276	NaN	NaN	0.991266021
##	YFR010W	YFR011C	YFR012W	YFR013W	YFR014C	YFR015C
##	NaN	0.941093161	NaN	1.290928303	0.880202573	1.565704382
##	YFR016C	YFR017C	YFR018C	YFR019W	YFR020W	YFR021W
##	NaN	NaN	NaN	NaN	1.605204716	0.913825319
##	YFR022W	YFR023W	YFR024C	YFR024C-A	YFR025C	YFR026C
##	0.299134478	1.409514124	NA	0.930309887	0.921753591	1.470116220
##	YFR027W	YFR028C	YFR029W	YFR030W	YFR031C	YFR031C-A
##	NaN	1.870080932	NaN	2.335897966	NaN	NaN
##	YFR032C	YFR033C	YFR034C	YFR035C	YFR036W	YFR037C
##	1.296288701	NaN	2.127937812	NaN	NaN	NaN
##	YFR038W	YFR039C	YFR040W	YFR041C	YFR042W	YFR043C
##	NaN	NaN	NaN	2.223234079	2.223234079	NaN
##	YFR044C	YFR045W	YFR046C	YFR047C	YFR048W	YFR049W
##	1.213330098	1.213330098	1.619020372	NaN	NaN	1.296450916
##	YFR050C	YFR051C	YFR052W	YFR053C	YFR054C	YFR055W
##	0.708533430	NaN	NaN	NaN	1.384522381	0.927727076
##	YFR056C	YFR057W	YGL001C	YGL002W	YGL003C	YGL004C
##	NaN	1.120849476	NaN	0.834457619	0.834457619	1.033619200
##	YGL005C	YGL006W	YGL007W	YGL008C	YGL009C	YGL010W
##	0.321341962	NaN	NaN	NaN	NaN	NaN
##	YGL011C	YGL012W	YGL013C	YGL014W	YGL015C	YGL016W
##	NaN	1.812995600	1.812995600	1.147911307	1.147911307	1.864791751
##	YGL017W	YGL018C	YGL019W	YGL020C	YGL021W	YGL022W
##	1.767096790	1.767096790	1.103475512	1.103475512	NaN	NaN
##	YGL023C	YGL024W	YGL025C	YGL026C	YGL027C	YGL028C
##	NaN	0.248543781	NaN	0.248543781	0.854442782	1.959690468
##	YGL029W	YGL030W	YGL031C	YGL032C	YGL033W	YGL034C
##	1.980966594	1.128383815	1.128383815	0.873197458	1.321346308	2.181143558
##	YGL035C	YGL036W	YGL037C	YGL038C	YGL039W	YGL040C
##	1.917579276	2.046498194	2.046498194	NaN	NaN	0.696968895
##	YGL041C	YGL042C	YGL043W	YGL044C	YGL045W	YGL046W
##	0.654156413	1.266239024	1.367479495	1.367479495	1.499478277	3.737552903
##	YGL047W	YGL048C	YGL049C	YGL050W	YGL051W	YGL052W
##	1.282100254	1.282100254	NaN	NaN	0.908416976	0.908416976
##	YGL053W	YGL054C	YGL055W	YGL056C	YGL057C	YGL058W
##	1.186750320	1.599583100	NaN	NaN	1.237887386	1.167928716

##	YGL059W	YGL060W	YGL061C	YGL062W	YGL063W	YGL064C
##	1.807251592	1.885477495	1.885477495	1.015826782	1.719497953	1.719497953
##	YGL065C	YGL066W	YGL067W	YGL068W	YGL069C	YGL070C
##	NaN	2.754297921	1.549970570	0.884457676	1.549970570	0.884457676
##	YGL071W	YGL072C	YGL073W	YGL074C	YGL075C	YGL076C
##	1.536175513	1.536175513	NaN	1.536175513	NaN	2.269986206
##	YGL077C	YGL078C	YGL079W	YGL080W	YGL081W	YGL082W
##	NaN	1.154871969	1.317390033	1.052101160	0.764397665	NaN
##	YGL083W	YGL084C	YGL085W	YGL086W	YGL087C	YGL088W
##	2.288077299	2.288077299	1.507586539	0.809817627	0.809817627	1.352309771
##	YGL089C	YGL090W	YGL091C	YGL092W	YGL093W	YGL094C
##	1.352309771	0.269159740	0.269159740	NaN	0.769654646	0.769654646
##	YGL095C	YGL096W	YGL097W	YGL098W	YGL099W	YGL100W
##	1.945370688	0.431532702	0.935056622	NaN	NaN	0.919587196
##	YGL101W	YGL102C	YGL103W	YGL104C	YGL105W	YGL106W
##	NaN	NaN	0.764517184	0.764517184	1.258653262	1.169407921
##	YGL107C	YGL108C	YGL109W	YGL110C	YGL111W	YGL112C
##	1.169407921	NaN	1.320736018	1.320736018	0.527619177	0.527619177
##	YGL113W	YGL114W	YGL115W	YGL116W	YGL117W	YGL118C
##	0.930310815	NaN	0.419515759	NaN	1.542013554	1.542013554
##	YGL119W	YGL120C	YGL121C	YGL122C	YGL123W	YGL124C
##	2.851120909	2.851120909	1.225744921	1.587718534	1.339782152	1.339782152
##	YGL125W	YGL126W	YGL127C	YGL128C	YGL129C	YGL130W
##	NaN	2.453353949	2.453353949	2.453353949	1.236008135	NaN
##	YGL131C	YGL132W	YGL133W	YGL134W	YGL135W	YGL136C
##	NaN	0.910473217	NaN	NaN	NaN	NaN
##	YGL137W	YGL138C	YGL139W	YGL140C	YGL141W	YGL142C
##	NaN	NaN	NaN	NaN	2.563618277	2.563618277
##	YGL143C	YGL144C	YGL145W	YGL146C	YGL147C	YGL148W
##	1.504288495	1.563557680	NaN	NaN	NaN	1.508796795
##	YGL149W	YGL150C	YGL151W	YGL152C	YGL153W	YGL154C
##	NaN	1.508796795	3.113491237	3.113491237	1.388853246	1.388853246
##	YGL155W	YGL156W	YGL157W	YGL158W	YGL159W	YGL160W
##	1.111150764	1.092972487	1.180879792	1.304092576	0.860458555	1.850020049
##	YGL161C	YGL162W	YGL163C	YGL164C	YGL165C	YGL166W
##	1.850020049	NaN	NaN	1.035476962	1.035476962	NaN
##	YGL167C	YGL168W	YGL169W	YGL170C	YGL171W	YGL172W
##	NaN	0.730407329	NaN	0.949321582	1.884141042	NaN
##	YGL173C	YGL174W	YGL175C	YGL176C	YGL177W	YGL178W
##	NaN	NaN	NaN	1.256970550	0.175296630	2.046481101
##	YGL179C	YGL180W	YGL181W	YGL182C	YGL183C	YGL184C
##	NaN	1.914474299	0.635719230	0.635719230	0.752073565	NaN
##	YGL185C	YGL186C	YGL187C	YGL188C	YGL189C	YGL190C
##	1.981477591	1.186127277	NaN	0.294079520	NaN	NaN
##	YGL191W	YGL192W	YGL193C	YGL194C	YGL195W	YGL196W
##	2.148466436	NaN	2.148466436	NaN	NaN	1.423180834
##	YGL197W	YGL198W	YGL199C	YGL200C	YGL201C	YGL202W
##	1.157373441	1.921045115	1.157373441	1.921045115	NaN	NaN
##	YGL203C	YGL204C	YGL205W	YGL206C	YGL207W	YGL208W
##	0.895074733	1.316775880	3.254605441	3.254605441	0.902757786	2.077063487
##	YGL209W	YGL210W	YGL211W	YGL212W	YGL213C	YGL214W
##	2.223148325	NaN	0.950109966	1.203257526	1.203257526	1.541066015
##	YGL215W	YGL216W	YGL217C	YGL218W	YGL219C	YGL220W
##	0.846526208	0.937403736	0.846526208	0.588804123	0.937403736	0.473226267

##	YGL221C	YGL222C	YGL223C	YGL224C	YGL225W	YGL226C-A
##	0.473226267	1.039710201	0.500616483	1.416687614	0.737733057	1.984140673
##	YGL226W	YGL227W	YGL228W	YGL229C	YGL230C	YGL231C
##	1.984140673	NaN	NaN	NaN	1.026810891	0.556921887
##	YGL232W	YGL233W	YGL234W	YGL235W	YGL236C	YGL237C
##	0.356044927	NaN	NaN	NaN	NaN	NaN
##	YGL238W	YGL239C	YGL240W	YGL241W	YGL242C	YGL243W
##	0.707361880	0.782787243	0.949654453	0.949654453	0.949654453	1.455257022
##	YGL244W	YGL245W	YGL246C	YGL247W	YGL248W	YGL249W
##	NaN	0.685831706	0.685831706	0.697473912	0.587274983	1.377961614
##	YGL250W	YGL251C	YGL252C	YGL253W	YGL254W	YGL255W
##	1.496176296	1.496176296	1.880542352	NaN	NaN	0.674534751
##	YGL256W	YGL257C	YGL258W	YGL259W	YGL260W	YGL261C
##	NaN	NaN	0.866482206	1.340623264	0.974236189	0.974236189
##	YGL262W	YGL263W	YGR001C	YGR002C	YGR003W	YGR004W
##	0.958563793	NaN	2.511451519	0.401383521	0.401383521	NaN
##	YGR005C	YGR006W	YGR007W	YGR008C	YGR009C	YGR010W
##	NaN	NaN	1.183613434	1.519538440	2.635041487	2.635041487
##	YGR011W	YGR012W	YGR013W	YGR014W	YGR015C	YGR016W
##	2.635041487	1.064026621	NaN	NaN	1.605957538	1.605957538
##	YGR017W	YGR018C	YGR019W	YGR020C	YGR021W	YGR022C
##	0.997635748	1.432146846	1.432146846	0.515853404	0.515853404	1.167186108
##	YGR023W	YGR024C	YGR025W	YGR026W	YGR027C	YGR027W-A
##	0.972180580	NaN	0.640907320	0.640907320	NaN	NA
##	YGR027W-B	YGR028W	YGR029W	YGR030C	YGR031W	YGR032W
##	NA	NaN	NaN	NaN	NaN	NaN
##	YGR033C	YGR034W	YGR035C	YGR036C	YGR037C	YGR038C-A
##	1.696139419	1.696139419	NaN	1.699701750	NaN	NA
##	YGR038C-B	YGR038W	YGR039W	YGR040W	YGR041W	YGR042W
##	NA	NaN	1.268534496	0.452056861	NaN	1.046917261
##	YGR043C	YGR044C	YGR045C	YGR046W	YGR047C	YGR048W
##	0.556716561	1.324881795	1.324881795	1.324881795	0.512069828	0.512069828
##	YGR049W	YGR050C	YGR051C	YGR052W	YGR053C	YGR054W
##	NaN	NaN	0.512094662	0.512094662	1.311066078	1.311066078
##	YGR055W	YGR056W	YGR057C	YGR058W	YGR059W	YGR060W
##	NaN	1.858316092	0.599445445	0.599445445	1.612266315	NaN
##	YGR061C	YGR062C	YGR063C	YGR064W	YGR065C	YGR066C
##	NaN	0.957305619	NaN	0.957305619	0.301847262	0.847907549
##	YGR067C	YGR068C	YGR069W	YGR070W	YGR071C	YGR072W
##	2.248257422	NaN	2.248257422	NaN	1.658727278	1.658727278
##	YGR073C	YGR074W	YGR075C	YGR076C	YGR077C	YGR078C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YGR079W	YGR080W	YGR081C	YGR082W	YGR083C	YGR084C
##	NaN	NaN	1.363302673	1.363302673	1.281924422	NaN
##	YGR085C	YGR086C	YGR087C	YGR088W	YGR089W	YGR090W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YGR091W	YGR092W	YGR093W	YGR094W	YGR095C	YGR096W
##	1.679669383	NaN	1.371389593	0.690748539	0.214660630	0.214660630
##	YGR097W	YGR098C	YGR099W	YGR100W	YGR101W	YGR102C
##	1.221971090	NaN	NaN	0.508574196	1.703801809	1.277853575
##	YGR103W	YGR104C	YGR105W	YGR106C	YGR107W	YGR108W
##	1.277853575	1.145277508	1.145277508	NaN	NaN	NaN
##	YGR109C	YGR109W-A	YGR109W-B	YGR110W	YGR111W	YGR112W
##	NaN	NA	NA	NaN	NaN	2.976890490



##	YGR113W	YGR114C	YGR115C	YGR116W	YGR117C	YGR118W
##	2.656672780	1.273558014	1.273558014	1.887900868	0.965782834	0.965782834
##	YGR119C	YGR120C	YGR121C	YGR122C-A	YGR122W	YGR123C
##	NaN	NaN	1.116117318	0.898902193	1.116117318	NaN
##	YGR124W	YGR125W	YGR126W	YGR127W	YGR128C	YGR129W
##	NaN	NaN	NaN	NaN	1.867130830	1.867130830
##	YGR130C	YGR131W	YGR132C	YGR133W	YGR134W	YGR135W
##	NaN	NaN	2.228314951	2.228314951	NaN	2.941553904
##	YGR136W	YGR137W	YGR138C	YGR139W	YGR140W	YGR141W
##	0.740217353	0.740217353	0.057137405	0.057137405	NaN	0.876409345
##	YGR142W	YGR143W	YGR144W	YGR145W	YGR146C	YGR147C
##	0.655765993	NaN	1.791073506	0.310447733	0.576700995	NaN
##	YGR148C	YGR149W	YGR150C	YGR151C	YGR152C	YGR153W
##	1.128302898	1.128302898	1.096576832	NaN	NaN	NaN
##	YGR154C	YGR155W	YGR156W	YGR157W	YGR158C	YGR159C
##	NaN	NaN	NaN	1.072110685	1.674524110	1.547868998
##	YGR160W	YGR161C	YGR161C-C	YGR161C-D	YGR161W-A	YGR161W-B
##	1.674524110	1.427454678	NA	NA	1.327624823	NA
##	YGR162W	YGR163W	YGR164W	YGR165W	YGR166W	YGR167W
##	NaN	NaN	NaN	NaN	2.506303641	1.695906862
##	YGR168C	YGR169C	YGR170W	YGR171C	YGR172C	YGR173W
##	1.418848326	NaN	NaN	0.601943180	1.507657376	1.507657376
##	YGR174C	YGR175C	YGR176W	YGR177C	YGR178C	YGR179C
##	NaN	0.909329999	0.909329999	1.962336675	NaN	1.478076961
##	YGR180C	YGR181W	YGR182C	YGR183C	YGR184C	YGR185C
##	NaN	0.885937365	NaN	NaN	NaN	1.008291630
##	YGR186W	YGR187C	YGR188C	YGR189C	YGR190C	YGR191W
##	1.008291630	2.207482619	NaN	NaN	NaN	NaN
##	YGR192C	YGR193C	YGR194C	YGR195W	YGR196C	YGR197C
##	NaN	NaN	1.993900402	1.993900402	1.305008011	1.342558364
##	YGR198W	YGR199W	YGR200C	YGR201C	YGR202C	YGR203W
##	1.342558364	0.519749215	NaN	NaN	1.020990921	1.020990921
##	YGR204W	YGR205W	YGR206W	YGR207C	YGR208W	YGR209C
##	1.078940349	NaN	0.736398791	0.693295287	0.693295287	1.161327599
##	YGR210C	YGR211W	YGR212W	YGR213C	YGR214W	YGR215W
##	1.768329949	1.768329949	1.398906110	1.742191848	1.742191848	NaN
##	YGR216C	YGR217W	YGR218W	YGR219W	YGR220C	YGR221C
##	1.122685755	1.122685755	NaN	2.470169620	1.751083198	NaN
##	YGR222W	YGR223C	YGR224W	YGR225W	YGR226C	YGR227W
##	NaN	NaN	NaN	1.181152921	NaN	NaN
##	YGR228W	YGR229C	YGR230W	YGR231C	YGR232W	YGR233C
##	2.125849655	1.257927990	1.257927990	2.491753561	2.491753561	NaN
##	YGR234W	YGR235C	YGR236C	YGR237C	YGR238C	YGR239C
##	NaN	0.904972531	1.188791306	0.581902465	0.523861492	1.675993632
##	YGR240C	YGR241C	YGR242W	YGR243W	YGR244C	YGR245C
##	1.353001347	1.149865142	1.353001347	1.149865142	1.181109768	1.009579490
##	YGR246C	YGR247W	YGR248W	YGR249W	YGR250C	YGR251W
##	1.115082757	1.115082757	1.196815129	1.601071246	0.845658680	NaN
##	YGR252W	YGR253C	YGR254W	YGR255C	YGR256W	YGR257C
##	0.169024615	0.802924213	NaN	NaN	NaN	NaN
##	YGR258C	YGR259C	YGR260W	YGR261C	YGR262C	YGR263C
##	1.139474975	0.444837600	1.036433690	0.394661418	1.943714410	NaN
##	YGR264C	YGR265W	YGR266W	YGR267C	YGR268C	YGR269W
##	1.868995647	NaN	1.868995647	1.884630807	1.235863948	1.884630807

##	YGR270W	YGR271W	YGR272C	YGR273C	YGR274C	YGR275W
##	1.235863948	0.825097111	0.825570069	NaN	1.039992769	1.039992769
##	YGR276C	YGR277C	YGR278W	YGR279C	YGR280C	YGR281W
##	0.344634827	0.202611731	0.202611731	NaN	1.161269104	1.161269104
##	YGR282C	YGR283C	YGR284C	YGR285C	YGR286C	YGR287C
##	2.322161522	2.067890723	0.897942585	0.976994208	0.710776250	0.669391990
##	YGR288W	YGR289C	YGR290W	YGR291C	YGR292W	YGR293C
##	0.669391990	NaN	0.827086598	1.250281155	1.250281155	0.855276959
##	YGR294W	YGR295C	YGR296W	YHL001W	YHL002W	YHL003C
##	2.056751246	1.023116725	1.190145168	1.026692249	1.448047882	1.448047882
##	YHL004W	YHL005C	YHL006C	YHL007C	YHL008C	YHL009C
##	0.340399440	NaN	NaN	0.340399440	NaN	0.754320160
##	YHL009W-A	YHL009W-B	YHL010C	YHL011C	YHL012W	YHL013C
##	NA	NA	1.029510645	1.572200412	NaN	NaN
##	YHL014C	YHL015W	YHL016C	YHL017W	YHL018W	YHL019C
##	0.681114093	0.703928439	0.703928439	1.273968444	1.069081338	1.069081338
##	YHL020C	YHL021C	YHL022C	YHL023C	YHL024W	YHL025W
##	2.199557857	NaN	1.140149362	1.444942206	2.504741260	1.394098706
##	YHL026C	YHL027W	YHL028W	YHL029C	YHL030W	YHL031C
##	1.394098706	1.227961982	NaN	NaN	0.971347425	0.971347425
##	YHL032C	YHL033C	YHL034C	YHL035C	YHL036W	YHL037C
##	1.303301058	1.329275058	NaN	1.451574907	0.162463258	0.162463258
##	YHL038C	YHL039W	YHL040C	YHL041W	YHL042W	YHL043W
##	0.917310379	1.142819357	1.142819357	1.331655556	1.347961269	NaN
##	YHL044W	YHL045W	YHL046C	YHL047C	YHL048W	YHL049C
##	1.613479746	1.204684816	1.204684816	NaN	0.923711391	1.317835982
##	YHL050C	YHR001W	YHR001W-A	YHR002W	YHR003C	YHR004C
##	0.736196142	NaN	1.159195366	NaN	NaN	1.166742139
##	YHR005C	YHR005C-A	YHR006W	YHR007C	YHR008C	YHR009C
##	NaN	2.735912313	2.391490899	0.716217855	NaN	1.336548804
##	YHR010W	YHR011W	YHR012W	YHR013C	YHR014W	YHR015W
##	1.336548804	NaN	0.568712063	1.497132518	1.497132518	NaN
##	YHR016C	YHR017W	YHR018C	YHR019C	YHR020W	YHR021C
##	1.602450976	1.602450976	NaN	0.757893536	0.757893536	1.590712822
##	YHR021W-A	YHR022C	YHR023W	YHR024C	YHR025W	YHR026W
##	1.590712822	0.676901078	0.676901078	0.706169332	0.706169332	0.587311230
##	YHR027C	YHR028C	YHR029C	YHR030C	YHR031C	YHR032W
##	1.024001895	0.800367267	1.328296729	1.335068524	1.478471874	1.478471874
##	YHR033W	YHR034C	YHR035W	YHR036W	YHR037W	YHR038W
##	0.744863736	1.189343918	1.189343918	0.893594295	1.268078720	0.272327179
##	YHR039C	YHR039C-A	YHR040W	YHR041C	YHR042W	YHR043C
##	0.346437190	1.114600304	1.114600304	NaN	NaN	NaN
##	YHR044C	YHR045W	YHR046C	YHR047C	YHR048W	YHR049C-A
##	NaN	NaN	1.296839258	NaN	NaN	NaN
##	YHR049W	YHR050W	YHR051W	YHR052W	YHR053C	YHR054C
##	0.762417709	NaN	0.700496933	2.935304979	0.875158703	0.231766008
##	YHR055C	YHR056C	YHR057C	YHR058C	YHR059W	YHR060W
##	0.413678711	2.208291205	0.347104917	0.506079416	0.506079416	NaN
##	YHR061C	YHR062C	YHR063C	YHR064C	YHR065C	YHR066W
##	NaN	0.939903270	NaN	0.674106291	NaN	NaN
##	YHR067W	YHR068W	YHR069C	YHR070W	YHR071W	YHR072W
##	1.594240583	NaN	1.165922503	1.165922503	1.484437396	2.170469986
##	YHR072W-A	YHR073W	YHR074W	YHR075C	YHR076W	YHR077C
##	2.170469986	3.025381122	1.862672480	1.073050542	1.073050542	0.837468706

##	YHR078W	YHR079C	YHR079C-A	YHR080C	YHR081W	YHR082C
##	0.837468706	0.843835455	NaN	0.531981830	0.531981830	NaN
##	YHR083W	YHR084W	YHR085W	YHR086W	YHR087W	YHR088W
##	NaN	1.559830677	NaN	NaN	NaN	NaN
##	YHR089C	YHR090C	YHR091C	YHR092C	YHR093W	YHR094C
##	2.395447308	2.907419609	NaN	0.894553909	0.894553909	1.242350366
##	YHR095W	YHR096C	YHR097C	YHR098C	YHR099W	YHR100C
##	1.242350366	3.693854751	1.438329237	1.197027798	1.197027798	0.879067017
##	YHR101C	YHR102W	YHR103W	YHR104W	YHR105W	YHR106W
##	1.283585460	1.283585460	NaN	0.910757272	NaN	0.699685106
##	YHR107C	YHR108W	YHR109W	YHR110W	YHR111W	YHR112C
##	0.754869613	0.754869613	0.621952047	NaN	1.029160501	1.587517264
##	YHR113W	YHR114W	YHR115C	YHR116W	YHR117W	YHR118C
##	1.587517264	NaN	1.014922441	1.014922441	0.797321873	1.932416168
##	YHR119W	YHR120W	YHR121W	YHR122W	YHR123W	YHR124W
##	1.932416168	1.854755705	NaN	0.795680610	NaN	NaN
##	YHR125W	YHR126C	YHR127W	YHR128W	YHR129C	YHR130C
##	2.211249562	2.318259170	2.318259170	1.344481608	NaN	NaN
##	YHR131C	YHR132C	YHR132W-A	YHR133C	YHR134W	YHR135C
##	NaN	1.004293886	NaN	NaN	NaN	NaN
##	YHR136C	YHR137W	YHR138C	YHR139C	YHR139C-A	YHR140W
##	NaN	NaN	NaN	1.163504237	NaN	NaN
##	YHR141C	YHR142W	YHR143W	YHR143W-A	YHR144C	YHR145C
##	1.326824996	1.326824996	NaN	NaN	0.862306312	0.707569015
##	YHR146W	YHR147C	YHR148W	YHR149C	YHR150W	YHR151C
##	0.608311613	0.872018070	0.872018070	NaN	NaN	NaN
##	YHR152W	YHR153C	YHR154W	YHR155W	YHR156C	YHR157W
##	NaN	NaN	NaN	1.537844337	1.430972140	1.430972140
##	YHR158C	YHR159W	YHR160C	YHR161C	YHR162W	YHR163W
##	NaN	NaN	1.350980123	0.867682187	0.867682187	0.805344828
##	YHR164C	YHR165C	YHR166C	YHR167W	YHR168W	YHR169W
##	1.609838490	NaN	0.480610685	0.480610685	NaN	0.798836298
##	YHR170W	YHR171W	YHR172W	YHR173C	YHR174W	YHR175W
##	1.205795114	2.437934262	NaN	0.636839890	0.636839890	NaN
##	YHR176W	YHR177W	YHR178W	YHR179W	YHR180W	YHR181W
##	2.115681559	NaN	1.277932635	NaN	1.530243127	0.966074986
##	YHR182W	YHR183W	YHR184W	YHR185C	YHR186C	YHR187W
##	1.133476463	NaN	1.232094676	NaN	NaN	NaN
##	YHR188C	YHR189W	YHR190W	YHR191C	YHR192W	YHR193C
##	0.917439695	0.917439695	NaN	1.889350194	1.889350194	NaN
##	YHR194W	YHR195W	YHR196W	YHR197W	YHR198C	YHR199C
##	NaN	NaN	NaN	NaN	0.897345208	NaN
##	YHR200W	YHR201C	YHR202W	YHR203C	YHR204W	YHR205W
##	NaN	0.665992585	0.665992585	NaN	NaN	1.250885267
##	YHR206W	YHR207C	YHR208W	YHR209W	YHR210C	YHR211W
##	1.604485673	1.783882378	1.783882378	1.409400623	1.330475115	1.330475115
##	YHR212C	YHR213W	YHR214C-B	YHR214C-C	YHR214W	YHR214W-A
##	0.836943549	0.407158445	NA	NA	0.836943549	0.836943549
##	YHR215W	YHR216W	YHR218W	YHR219W	YIL001W	YIL002C
##	1.981090727	1.981090727	1.981090727	1.981090727	0.723789853	0.723789853
##	YIL003W	YIL004C	YIL005W	YIL006W	YIL007C	YIL008W
##	1.351509059	1.351509059	NaN	1.011176753	1.011176753	3.557430598
##	YIL009C-A	YIL009W	YIL010W	YIL011W	YIL012W	YIL013C
##	1.655720864	NaN	0.468429215	1.546238494	1.156662491	1.156662491

##	YILO14W	YILO15C-A	YILO15W	YILO16W	YILO18W	YILO19W
##	1.782254616	NA	NaN	NaN	1.640329476	1.732460636
##	YILO20C	YILO21W	YILO22W	YILO23C	YILO24C	YILO25C
##	1.732460636	2.242249060	2.250717747	2.250717747	1.850219636	1.850219636
##	YILO26C	YILO27C	YILO28W	YILO29C	YILO30C	YILO31W
##	NaN	1.106005543	1.845998247	1.845998247	0.510922908	0.706801697
##	YILO32C	YILO33C	YILO34C	YILO35C	YILO36W	YILO37C
##	0.706801697	NaN	1.069025543	0.922675495	0.617191775	0.617191775
##	YILO38C	YILO39W	YILO40W	YILO41W	YILO42C	YILO43C
##	0.889589251	0.975630993	NaN	0.817988244	0.817988244	NaN
##	YILO44C	YILO45W	YILO46W	YILO47C	YILO48W	YILO49W
##	1.322274683	NaN	NaN	NaN	0.957152793	0.718755825
##	YILO50W	YILO51C	YILO52C	YILO53W	YILO54W	YILO55C
##	NaN	NaN	1.231460985	0.903036054	0.271450820	0.271450820
##	YILO56W	YILO57C	YILO58W	YILO59C	YILO60W	YILO61C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YILO62C	YILO63C	YILO64W	YILO65C	YILO66C	YILO67C
##	1.631209886	NaN	1.347084561	1.347084561	NaN	1.017358283
##	YILO68C	YILO69C	YILO70C	YILO71C	YILO72W	YILO73C
##	0.493180068	1.569459196	NaN	NaN	1.906183825	1.906183825
##	YILO74C	YILO75C	YILO76W	YILO77C	YILO78W	YILO79C
##	0.580627758	1.263105076	1.556769167	1.556769167	1.032349415	1.032349415
##	YILO80W	YILO82W	YILO82W-A	YILO83C	YILO84C	YILO85C
##	1.056775014	NA	NA	3.141518831	0.765741716	1.348777076
##	YILO86C	YILO87C	YILO88C	YILO89W	YILO90W	YILO91C
##	1.348777076	1.348777076	1.216291338	1.198652899	1.268582694	1.268582694
##	YILO92W	YILO93C	YILO94C	YILO95W	YILO96C	YILO97W
##	0.742098036	0.742098036	1.056373124	NaN	0.647522589	0.247836232
##	YILO98C	YILO99W	YILO100W	YILO101C	YILO102C	YILO103W
##	0.247836232	0.985652186	0.741396114	0.741396114	0.528042815	0.548398596
##	YILO104C	YILO105C	YILO106W	YILO107C	YILO108W	YILO109C
##	0.548398596	0.976460648	1.206193317	1.206193317	1.176711290	1.176711290
##	YILO110W	YILO111W	YILO112W	YILO113W	YILO114C	YILO115C
##	0.799353474	0.606180199	0.780681983	0.663360777	0.663360777	NaN
##	YILO116W	YILO117C	YILO118W	YILO119C	YILO120W	YILO121W
##	1.296626471	1.296626471	0.846988772	0.320547115	0.930920209	1.516954390
##	YILO122W	YILO123W	YILO124W	YILO125W	YILO126W	YILO127C
##	1.491010646	NaN	3.384839057	2.567484395	NaN	NaN
##	YILO128W	YILO129C	YILO130W	YILO131C	YILO132C	YILO133C
##	NaN	NaN	0.803491686	0.803491686	1.825693784	0.523368673
##	YILO134W	YILO135C	YILO136W	YILO137C	YILO138C	YILO139C
##	0.911189264	NaN	0.991735395	0.991735395	0.978215645	1.038719692
##	YILO140W	YILO141W	YILO142W	YILO143C	YILO144W	YILO145C
##	NaN	NaN	1.207188288	1.207188288	NaN	NaN
##	YILO146C	YILO147C	YILO148W	YILO149C	YILO150C	YILO151C
##	NaN	1.208065003	0.978914514	0.978914514	0.695474095	1.194528037
##	YILO152W	YILO153W	YILO154C	YILO155C	YILO156W	YILO157C
##	1.754509521	1.111812910	1.111812910	1.697488307	0.966552640	0.966552640
##	YILO158W	YILO159W	YILO160C	YILO161W	YILO162W	YILO163C
##	0.960227041	NaN	NaN	0.969620923	0.918009027	0.918009027
##	YILO164C	YILO165C	YILO166C	YILO167W	YILO168W	YILO169C
##	2.453585782	2.453585782	NaN	NaN	NaN	NaN
##	YILO170W	YILO171W	YILO172C	YILO173W	YILO174W	YILO175W
##	0.691107448	0.691107448	0.691107448	NaN	0.516222668	0.516222668

##	YIL176C	YIL177C	YIR001C	YIR002C	YIR003W	YIR004W
##	1.399179975	0.763487423	0.741989298	0.843197315	0.843197315	NaN
##	YIR005W	YIR006C	YIR007W	YIR008C	YIR009W	YIR010W
##	0.892543552	1.485669129	1.481094024	2.116074640	2.116074640	1.613371966
##	YIR011C	YIR012W	YIR013C	YIR014W	YIR015W	YIR016W
##	NaN	NaN	1.305219253	1.305219253	NaN	NaN
##	YIR017C	YIR018W	YIR019C	YIR020C	YIR021W	YIR022W
##	1.659291735	1.659291735	1.349572220	1.010159373	1.079145883	NaN
##	YIR023W	YIR024C	YIR025W	YIR026C	YIR027C	YIR028W
##	NaN	0.640111889	0.640111889	0.680349008	0.704521734	0.704521734
##	YIR029W	YIR030C	YIR031C	YIR032C	YIR033W	YIR034C
##	0.601866387	0.856977897	0.722805285	NaN	NaN	1.788423920
##	YIR035C	YIR036C	YIR037W	YIR038C	YIR039C	YIR040C
##	NaN	0.306071877	0.306071877	1.315887336	0.801018908	0.382384373
##	YIR041W	YIR042C	YIR043C	YJL001W	YJL002C	YJL003W
##	0.382384373	0.554115709	0.500752243	1.834397436	1.834397436	1.235204836
##	YJL004C	YJL005W	YJL006C	YJL007C	YJL008C	YJL009W
##	1.235204836	1.671881457	1.051398640	NaN	1.000196878	1.085647401
##	YJL010C	YJL011C	YJL012C	YJL013C	YJL014W	YJL015C
##	1.085647401	0.820453127	NaN	NaN	NaN	0.928362854
##	YJL016W	YJL017W	YJL018W	YJL019W	YJL020C	YJL021C
##	NaN	0.652648548	2.523031435	2.523031435	2.523031435	NA
##	YJL022W	YJL023C	YJL024C	YJL025W	YJL026W	YJL027C
##	0.752122158	0.686182265	0.524581227	1.622887108	0.925499045	0.925499045
##	YJL028W	YJL029C	YJL030W	YJL031C	YJL032W	YJL033W
##	1.007188164	NaN	1.245743822	1.245743822	NaN	NaN
##	YJL034W	YJL035C	YJL036W	YJL037W	YJL038C	YJL039C
##	NaN	NaN	NaN	1.083326380	1.083326380	NaN
##	YJL041W	YJL042W	YJL043W	YJL044C	YJL045W	YJL046W
##	0.948562797	1.564707965	NaN	NaN	NaN	NaN
##	YJL047C	YJL048C	YJL049W	YJL050W	YJL051W	YJL052W
##	NaN	NaN	NaN	0.845219100	NaN	1.923630143
##	YJL053W	YJL054W	YJL055W	YJL056C	YJL057C	YJL058C
##	1.891782844	NaN	NaN	NaN	1.247301030	1.150306924
##	YJL059W	YJL060W	YJL061W	YJL062W	YJL063C	YJL064W
##	0.369682544	1.922951987	2.034190619	NaN	NaN	NaN
##	YJL065C	YJL066C	YJL067W	YJL068C	YJL069C	YJL070C
##	0.885472250	NaN	NaN	NaN	1.001011973	1.529727717
##	YJL071W	YJL072C	YJL073W	YJL074C	YJL075C	YJL076W
##	NaN	NaN	NaN	NaN	NaN	1.483300837
##	YJL077C	YJL078C	YJL079C	YJL080C	YJL081C	YJL082W
##	1.483300837	NaN	NaN	NaN	0.487086885	0.835279921
##	YJL083W	YJL084C	YJL085W	YJL086C	YJL087C	YJL088W
##	1.451705030	1.451705030	1.074973082	0.505510394	0.505510394	0.148348578
##	YJL089W	YJL090C	YJL091C	YJL092W	YJL093C	YJL094C
##	NaN	NaN	1.824057499	NaN	NaN	1.258882488
##	YJL095W	YJL096W	YJL097W	YJL098W	YJL099W	YJL100W
##	NaN	0.507835573	0.507835573	NaN	0.708364068	NaN
##	YJL101C	YJL102W	YJL103C	YJL104W	YJL105W	YJL106W
##	NaN	1.802889184	1.802889184	NaN	NaN	0.830375417
##	YJL107C	YJL108C	YJL109C	YJL110C	YJL111W	YJL112W
##	0.830375417	0.830375417	NaN	0.612677383	2.788737097	NaN
##	YJL113W	YJL114W	YJL115W	YJL116C	YJL117W	YJL118W
##	NA	NA	NaN	NaN	1.721958480	1.907727078

##	YJL119C	YJL120W	YJL121C	YJL122W	YJL123C	YJL124C
##	1.721958480	NaN	1.907727078	2.309987611	2.309987611	2.155391640
##	YJL125C	YJL126W	YJL127C	YJL128C	YJL129C	YJL130C
##	0.950246611	1.495523007	1.495523007	0.984740935	0.663067757	1.239461873
##	YJL131C	YJL132W	YJL133W	YJL134W	YJL135W	YJL136C
##	0.855125887	0.655217451	NaN	1.218147937	1.218147937	1.218147937
##	YJL137C	YJL138C	YJL139C	YJL140W	YJL141C	YJL142C
##	1.015582966	0.836665138	1.057623027	3.015254155	3.015254155	3.015254155
##	YJL143W	YJL144W	YJL145W	YJL146W	YJL147C	YJL148W
##	0.781458119	1.304105306	2.478691240	NaN	NaN	NaN
##	YJL149W	YJL150W	YJL151C	YJL152W	YJL153C	YJL154C
##	1.135974588	1.135974588	1.135974588	NaN	NaN	NaN
##	YJL155C	YJL156C	YJL157C	YJL158C	YJL159W	YJL160C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YJL161W	YJL162C	YJL163C	YJL164C	YJL165C	YJL166W
##	NaN	0.820159161	2.470025026	3.432801173	1.153660217	1.102296938
##	YJL167W	YJL168C	YJL169W	YJL170C	YJL171C	YJL172W
##	1.097790639	1.097790639	0.053522681	0.053522681	1.162827148	NaN
##	YJL173C	YJL174W	YJL175W	YJL176C	YJL177W	YJL178C
##	NaN	NaN	NaN	NaN	0.895518127	0.895518127
##	YJL179W	YJL180C	YJL181W	YJL182C	YJL183W	YJL184W
##	0.864740017	0.864740017	NaN	1.838996642	0.899933164	NaN
##	YJL185C	YJL186W	YJL187C	YJL188C	YJL189W	YJL190C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YJL191W	YJL192C	YJL193W	YJL194W	YJL195C	YJL196C
##	1.257537303	1.257537303	NaN	NaN	NaN	NaN
##	YJL197W	YJL198W	YJL199C	YJL200C	YJL201W	YJL202C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YJL203W	YJL204C	YJL205C-A	YJL206C	YJL207C	YJL208C
##	1.068595449	1.068595449	NaN	0.849378271	NaN	0.516758662
##	YJL209W	YJL210W	YJL211C	YJL212C	YJL213W	YJL214W
##	1.768339645	NaN	1.768339645	NaN	2.699339785	NaN
##	YJL215C	YJL216C	YJL217W	YJL218W	YJL219W	YJL220W
##	NaN	1.360074910	NaN	0.894772301	0.545779320	0.729435024
##	YJL221C	YJL222W	YJL223C	YJL225C	YJR001W	YJR002W
##	0.545779320	0.905192943	0.787559897	1.607216517	NaN	0.880193046
##	YJR003C	YJR004C	YJR005W	YJR006W	YJR007W	YJR008W
##	0.394365867	0.633873900	0.633873900	NaN	0.877554225	NaN
##	YJR009C	YJR010C-A	YJR010W	YJR011C	YJR012C	YJR013W
##	NaN	0.885484678	NaN	1.285598101	1.465390015	1.465390015
##	YJR014W	YJR015W	YJR016C	YJR017C	YJR018W	YJR019C
##	1.218316716	NaN	NaN	NaN	NaN	1.665128309
##	YJR020W	YJR021C	YJR022W	YJR023C	YJR024C	YJR025C
##	NaN	0.140744486	0.140744486	NaN	NaN	0.905360377
##	YJR026W	YJR027W	YJR028W	YJR029W	YJR030C	YJR031C
##	NA	NA	NA	NA	NaN	1.531855649
##	YJR032W	YJR033C	YJR034W	YJR035W	YJR036C	YJR037W
##	1.531855649	NaN	NaN	1.761818902	1.005380055	0.686856248
##	YJR038C	YJR039W	YJR040W	YJR041C	YJR042W	YJR043C
##	NaN	1.005380055	NaN	1.185210575	1.185210575	NaN
##	YJR044C	YJR045C	YJR046W	YJR047C	YJR048W	YJR049C
##	NaN	NaN	NaN	NaN	NaN	1.157426090
##	YJR050W	YJR051W	YJR052W	YJR053W	YJR054W	YJR055W
##	1.157426090	1.089667585	0.968311026	1.027134660	1.292402764	NaN

##	YJR056C	YJR057W	YJR058C	YJR059W	YJR060W	YJR061W
##	1.855297325	NaN	2.213603883	2.213603883	2.125220479	NaN
##	YJR062C	YJR063W	YJR064W	YJR065C	YJR066W	YJR067C
##	NaN	NaN	1.474426031	0.793190709	0.793190709	1.945332442
##	YJR068W	YJR069C	YJR070C	YJR071W	YJR072C	YJR073C
##	1.945332442	2.005684874	NaN	2.005684874	0.697365734	1.778488738
##	YJR074W	YJR075W	YJR076C	YJR077C	YJR078W	YJR079W
##	1.778488738	0.806890799	NaN	1.271125907	1.271125907	1.271125907
##	YJR080C	YJR082C	YJR083C	YJR084W	YJR085C	YJR086W
##	NaN	0.714853520	1.618833463	1.618833463	0.376971480	0.376971480
##	YJR087W	YJR088C	YJR089W	YJR090C	YJR091C	YJR092W
##	0.376971480	2.268662462	2.268662462	NaN	NaN	NaN
##	YJR093C	YJR094C	YJR094W-A	YJR095W	YJR096W	YJR097W
##	0.993422502	2.188025842	0.489633566	NaN	0.506864209	NaN
##	YJR098C	YJR099W	YJR100C	YJR101W	YJR102C	YJR103W
##	NaN	NaN	2.161952210	NaN	1.579667379	1.579667379
##	YJR104C	YJR105W	YJR106W	YJR107W	YJR108W	YJR109C
##	1.230772777	1.230772777	NaN	1.350312701	2.273118830	1.466961165
##	YJR110W	YJR111C	YJR112W	YJR113C	YJR114W	YJR115W
##	1.466961165	NaN	NaN	1.827652774	2.420169830	1.827652774
##	YJR116W	YJR117W	YJR118C	YJR119C	YJR120W	YJR121W
##	2.498505520	NaN	NaN	1.941079955	1.941079955	NaN
##	YJR122W	YJR123W	YJR124C	YJR125C	YJR126C	YJR127C
##	2.107669122	1.552723440	1.347644719	0.961566034	NaN	1.813411482
##	YJR128W	YJR129C	YJR130C	YJR131W	YJR132W	YJR133W
##	NaN	NaN	1.860645464	1.860645464	1.215914851	0.855011972
##	YJR134C	YJR135C	YJR135W-A	YJR136C	YJR137C	YJR138W
##	1.524378130	NaN	1.524378130	0.923868933	NaN	NaN
##	YJR139C	YJR140C	YJR141W	YJR142W	YJR143C	YJR144W
##	1.364507994	0.958451414	0.958451414	NaN	NaN	NaN
##	YJR145C	YJR146W	YJR147W	YJR148W	YJR149W	YJR150C
##	NaN	NaN	NaN	0.396148610	NaN	NaN
##	YJR151C	YJR152W	YJR153W	YJR154W	YJR155W	YJR156C
##	2.070120517	1.207507236	1.303399931	2.571768923	1.653701095	0.874680708
##	YJR157W	YJR158W	YJR159W	YJR160C	YJR161C	YKL001C
##	0.874680708	0.355966251	1.035929358	1.169067244	0.781936046	0.964795241
##	YKL002W	YKL003C	YKL004W	YKL005C	YKL006C-A	YKL006W
##	1.005344654	1.005344654	NaN	NaN	NaN	NaN
##	YKL007W	YKL008C	YKL009W	YKL010C	YKL011C	YKL012W
##	NaN	NaN	0.851976059	0.851976059	1.450031411	1.798446750
##	YKL013C	YKL014C	YKL015W	YKL016C	YKL017C	YKL018W
##	1.798446750	0.751124055	0.940668902	0.940668902	0.759972907	NaN
##	YKL019W	YKL020C	YKL021C	YKL022C	YKL023W	YKL024C
##	1.382947318	1.382947318	1.183598638	1.059957356	NaN	NaN
##	YKL025C	YKL026C	YKL027W	YKL028W	YKL029C	YKL030W
##	0.405909714	0.632172599	NaN	1.654305382	1.654305382	1.992201625
##	YKL031W	YKL032C	YKL033W	YKL034W	YKL035W	YKL036C
##	1.992201625	1.992201625	2.755969799	NaN	1.574553168	NaN
##	YKL037W	YKL038W	YKL039W	YKL040C	YKL041W	YKL042W
##	1.574553168	NaN	NaN	NaN	2.427352263	NaN
##	YKL043W	YKL044W	YKL045W	YKL046C	YKL047W	YKL048C
##	NaN	1.101997220	NaN	NaN	0.962946525	0.962946525
##	YKL049C	YKL050C	YKL051W	YKL052C	YKL053W	YKL054C
##	NaN	NaN	1.196863969	1.196863969	0.875823045	1.427099558

##	YKL055C	YKL056C	YKL057C	YKL058W	YKL059C	YKL060C
##	1.062047680	3.488356289	1.011035665	1.495899602	1.495899602	NaN
##	YKL061W	YKL062W	YKL063C	YKL064W	YKL065C	YKL066W
##	1.130296284	1.072224875	NaN	1.134493020	1.134493020	2.402042368
##	YKL067W	YKL068W	YKL069W	YKL070W	YKL071W	YKL072W
##	2.402042368	1.670328436	NaN	1.399248758	1.541256300	NaN
##	YKL073W	YKL074C	YKL075C	YKL076C	YKL077W	YKL078W
##	0.907883947	0.907883947	NaN	NaN	NaN	NaN
##	YKL079W	YKL080W	YKL081W	YKL082C	YKL083W	YKL084W
##	0.964406948	NaN	NaN	NaN	NaN	NaN
##	YKL085W	YKL086W	YKL087C	YKL088W	YKL089W	YKL090W
##	2.125221438	0.842241480	0.842241480	2.013013967	NaN	1.182384174
##	YKL091C	YKL092C	YKL093W	YKL094W	YKL095W	YKL096W
##	1.182384174	1.536171434	0.814162230	1.493194582	NaN	NaN
##	YKL096W-A	YKL097C	YKL098W	YKL099C	YKL100C	YKL101W
##	NaN	NaN	1.409057454	1.409057454	0.944768376	0.902937249
##	YKL102C	YKL103C	YKL104C	YKL105C	YKL106W	YKL107W
##	0.902937249	0.918817724	1.438635016	0.534548158	2.822994418	0.838698287
##	YKL108W	YKL109W	YKL110C	YKL111C	YKL112W	YKL113C
##	NaN	1.481963302	NaN	1.147351736	NaN	NaN
##	YKL114C	YKL115C	YKL116C	YKL117W	YKL118W	YKL119C
##	NaN	1.283954489	1.283954489	NaN	NaN	0.819769502
##	YKL120W	YKL121W	YKL122C	YKL123W	YKL124W	YKL125W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YKL126W	YKL127W	YKL128C	YKL129C	YKL130C	YKL131W
##	NaN	NaN	NaN	0.758971944	1.538183967	NaN
##	YKL132C	YKL133C	YKL134C	YKL135C	YKL136W	YKL137W
##	1.472978252	NaN	0.643009123	1.779291645	0.611667815	1.944593020
##	YKL138C	YKL139W	YKL140W	YKL141W	YKL142W	YKL143W
##	1.944593020	1.943467156	1.290409141	1.240562100	NaN	0.997970178
##	YKL144C	YKL145W	YKL146W	YKL147C	YKL148C	YKL149C
##	0.997970178	NaN	NaN	NaN	NaN	1.770242573
##	YKL150W	YKL151C	YKL152C	YKL153W	YKL154W	YKL155C
##	NaN	NaN	2.817871188	2.339711908	0.783296122	0.783296122
##	YKL156W	YKL157W	YKL159C	YKL160W	YKL161C	YKL162C
##	1.444826733	0.922956337	0.705626211	0.904431352	NaN	NaN
##	YKL163W	YKL164C	YKL165C	YKL166C	YKL167C	YKL168C
##	NaN	NaN	NaN	NaN	2.523001212	NaN
##	YKL169C	YKL170W	YKL171W	YKL172W	YKL173W	YKL174C
##	1.071634391	2.360261843	NaN	NaN	2.044832444	2.044832444
##	YKL175W	YKL176C	YKL177W	YKL178C	YKL179C	YKL180W
##	1.120794608	1.120794608	1.708912169	NaN	1.708912169	NaN
##	YKL181W	YKL182W	YKL183W	YKL184W	YKL185W	YKL186C
##	1.233669992	1.476162701	NaN	1.648807978	1.402626317	1.402626317
##	YKL187C	YKL188C	YKL189W	YKL190W	YKL191W	YKL192C
##	1.008123911	1.010067525	NaN	1.179847936	0.759242244	0.759242244
##	YKL193C	YKL194C	YKL195W	YKL196C	YKL197C	YKL198C
##	0.761130240	0.559499723	1.064495703	1.064495703	NaN	2.305884982
##	YKL199C	YKL201C	YKL202W	YKL203C	YKL204W	YKL205W
##	2.305884982	1.459089267	0.603556291	0.603556291	0.771086638	0.438976809
##	YKL206C	YKL207W	YKL208W	YKL209C	YKL210W	YKL211C
##	0.438976809	0.764796017	1.276893809	NaN	NaN	1.183965096
##	YKL212W	YKL213C	YKL214C	YKL215C	YKL216W	YKL217W
##	2.409526865	2.409526865	1.470431150	1.395420145	NaN	NaN



##	YKL218C	YKL219W	YKL220C	YKL221W	YKL222C	YKL223W
##	NaN	NaN	NaN	1.465424636	1.465424636	1.639183736
##	YKL224C	YKR001C	YKR002W	YKR003W	YKR004C	YKR005C
##	1.639183736	1.661582274	1.661582274	0.918886733	NaN	NaN
##	YKR006C	YKR007W	YKR008W	YKR009C	YKR010C	YKR011C
##	0.448053314	0.448053314	NaN	2.042791726	1.988433019	NaN
##	YKR012C	YKR013W	YKR014C	YKR015C	YKR016W	YKR017C
##	NaN	NaN	NaN	0.896140891	0.896140891	0.647438323
##	YKR018C	YKR019C	YKR020W	YKR021W	YKR022C	YKR023W
##	0.555791466	0.738577189	0.738577189	0.435121691	0.891930324	0.891930324
##	YKR024C	YKR025W	YKR026C	YKR027W	YKR028W	YKR029C
##	1.039527318	1.039527318	1.024775180	2.602574906	NaN	0.356654890
##	YKR030W	YKR031C	YKR032W	YKR033C	YKR034W	YKR035C
##	0.356654890	1.379625831	1.379625831	NaN	1.379625831	NA
##	YKR035W-A	YKR036C	YKR037C	YKR038C	YKR039W	YKR040C
##	NaN	1.206102269	0.384389529	1.153865391	0.917695012	NaN
##	YKR041W	YKR042W	YKR043C	YKR044W	YKR045C	YKR046C
##	1.184773229	NaN	1.678440791	1.678440791	NaN	0.401089760
##	YKR047W	YKR048C	YKR049C	YKR050W	YKR051W	YKR052C
##	0.401089760	1.791609252	0.948974149	0.948974149	NaN	NaN
##	YKR053C	YKR054C	YKR055W	YKR056W	YKR057W	YKR058W
##	2.481293869	NaN	NaN	0.615232814	NaN	NaN
##	YKR059W	YKR060W	YKR061W	YKR062W	YKR063C	YKR064W
##	NaN	NaN	NaN	NaN	1.084012898	1.084012898
##	YKR065C	YKR066C	YKR067W	YKR068C	YKR069W	YKR070W
##	1.009497542	0.718170508	0.718170508	0.598569980	0.598569980	NaN
##	YKR071C	YKR072C	YKR073C	YKR074W	YKR075C	YKR076W
##	0.921660750	0.460486137	NaN	0.562738594	1.783894437	1.354992583
##	YKR077W	YKR078W	YKR079C	YKR080W	YKR081C	YKR082W
##	NaN	0.948200014	NaN	NaN	2.043809604	2.043809604
##	YKR083C	YKR084C	YKR085C	YKR086W	YKR087C	YKR088C
##	NaN	1.179539946	0.736728716	0.736728716	1.300564690	0.551167729
##	YKR089C	YKR090W	YKR091W	YKR092C	YKR093W	YKR094C
##	1.586085216	1.586085216	NaN	NaN	1.387719355	NaN
##	YKR095W	YKR096W	YKR097W	YKR098C	YKR099W	YKR100C
##	NaN	0.892792693	NaN	1.703499027	1.703499027	NaN
##	YKR101W	YKR102W	YKR103W	YKR104W	YKR105C	YKR106W
##	NaN	2.513045784	NaN	-0.125322677	0.552062607	0.552062607
##	YLL001W	YLL002W	YLL003W	YLL004W	YLL005C	YLL006W
##	1.012030731	0.900753907	1.387151142	0.407169910	0.407169910	0.797290666
##	YLL007C	YLL008W	YLL009C	YLL010C	YLL011W	YLL012W
##	0.797290666	0.488937395	0.488937395	1.106145749	0.720262190	NaN
##	YLL013C	YLL014W	YLL015W	YLL016W	YLL017W	YLL018C
##	NaN	0.574161529	0.860360160	1.330959492	3.599067740	3.599067740
##	YLL019C	YLL020C	YLL021W	YLL022C	YLL023C	YLL024C
##	NaN	NaN	NaN	NaN	0.697455882	NaN
##	YLL025W	YLL026W	YLL027W	YLL028W	YLL029W	YLL030C
##	2.361134530	1.319719940	NaN	NaN	NaN	NaN
##	YLL031C	YLL032C	YLL033W	YLL034C	YLL035W	YLL036C
##	0.305275807	3.064245164	1.548594121	1.548594121	NaN	NaN
##	YLL037W	YLL038C	YLL039C	YLL040C	YLL041C	YLL042C
##	1.951608360	NaN	1.951608360	1.242088259	NaN	1.627026734
##	YLL043W	YLL044W	YLL045C	YLL046C	YLL047W	YLL048C
##	1.394839117	NA	1.394839117	NaN	NA	NaN

##	YLL049W	YLL050C	YLL051C	YLL052C	YLL053C	YLL054C
##	NaN	NaN	1.612380434	0.875473763	0.875473763	NaN
##	YLL055W	YLL056C	YLL057C	YLL058W	YLL059C	YLL060C
##	0.701773063	0.324434056	2.306738188	1.785151909	1.785151909	0.706806427
##	YLL061W	YLL062C	YLL063C	YLL064C	YLL065W	YLL066C
##	0.914788944	0.914788944	NaN	0.531226488	0.097584164	1.151502226
##	YLL067C	YLR001C	YLR002C	YLR003C	YLR004C	YLR005W
##	0.553651198	1.492816374	NaN	0.748334268	NaN	NaN
##	YLR006C	YLR007W	YLR008C	YLR009W	YLR010C	YLR011W
##	1.461822780	1.461822780	1.847423403	1.847423403	1.716138260	1.995975772
##	YLR012C	YLR013W	YLR014C	YLR015W	YLR016C	YLR017W
##	NaN	NaN	0.498680108	0.498680108	NaN	NaN
##	YLR018C	YLR019W	YLR020C	YLR021W	YLR022C	YLR023C
##	NaN	NaN	NaN	NaN	1.604649052	NaN
##	YLR024C	YLR025W	YLR026C	YLR027C	YLR028C	YLR029C
##	NaN	NaN	1.149563594	NaN	1.119909335	NaN
##	YLR030W	YLR031W	YLR032W	YLR033W	YLR034C	YLR035C
##	NaN	0.924827238	NaN	1.581908501	0.673402183	0.573136759
##	YLR035C-A	YLR036C	YLR037C	YLR038C	YLR039C	YLR040C
##	NA	NaN	0.554904476	0.605440512	0.683356469	NaN
##	YLR041W	YLR042C	YLR043C	YLR044C	YLR045C	YLR046C
##	0.683356469	1.114164318	0.913833539	NaN	NaN	0.973673418
##	YLR047C	YLR048W	YLR049C	YLR050C	YLR051C	YLR052W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YLR053C	YLR054C	YLR055C	YLR056W	YLR057W	YLR058C
##	1.773641552	1.115516387	NaN	NaN	NaN	NaN
##	YLR059C	YLR060W	YLR061W	YLR062C	YLR063W	YLR064W
##	0.479281586	0.479281586	NaN	NaN	NaN	NaN
##	YLR065C	YLR066W	YLR067C	YLR068W	YLR069C	YLR070C
##	NaN	NaN	NaN	NaN	1.801962791	1.584613745
##	YLR071C	YLR072W	YLR073C	YLR074C	YLR075W	YLR076C
##	0.676430560	0.676430560	2.476695446	NaN	NaN	0.587866267
##	YLR077W	YLR078C	YLR079W	YLR080W	YLR081W	YLR082C
##	0.587866267	1.094743969	1.094743969	1.399831909	NaN	2.105132453
##	YLR083C	YLR084C	YLR085C	YLR086W	YLR087C	YLR088W
##	NaN	0.862043429	1.563977809	1.563977809	1.379248530	1.379248530
##	YLR089C	YLR090W	YLR091W	YLR092W	YLR093C	YLR094C
##	0.636544018	0.636544018	0.677113443	1.579324435	1.274242069	1.637174852
##	YLR095C	YLR096W	YLR097C	YLR098C	YLR099C	YLR100W
##	2.779217659	2.779217659	1.148189846	0.707915425	1.880273595	1.880273595
##	YLR101C	YLR102C	YLR103C	YLR104W	YLR105C	YLR106C
##	1.381131929	1.381131929	NaN	NaN	NaN	0.834985380
##	YLR107W	YLR108C	YLR109W	YLR110C	YLR111W	YLR112W
##	0.834985380	1.938214159	1.938214159	NaN	NaN	NaN
##	YLR113W	YLR114C	YLR115W	YLR116W	YLR117C	YLR118C
##	3.281572452	NaN	NaN	NaN	1.052817288	0.932613656
##	YLR119W	YLR120C	YLR121C	YLR122C	YLR123C	YLR124W
##	0.932613656	NaN	0.977678861	0.832375654	0.832375654	0.832375654
##	YLR125W	YLR126C	YLR127C	YLR128W	YLR129W	YLR130C
##	NaN	1.076113900	2.183173439	2.183173439	2.975725884	1.409508439
##	YLR131C	YLR132C	YLR133W	YLR134W	YLR135W	YLR136C
##	1.489559567	0.987412253	0.987412253	0.689518429	0.926855432	1.065723790
##	YLR137W	YLR138W	YLR139C	YLR140W	YLR141W	YLR142W
##	1.065723790	1.644995108	0.890021317	2.666556168	2.666556168	0.890021317

##	YLR143W	YLR144C	YLR145W	YLR146C	YLR147C	YLR148W
##	0.538837711	1.767357116	1.767357116	NaN	NaN	NaN
##	YLR149C	YLR150W	YLR151C	YLR152C	YLR153C	YLR154C
##	1.367489839	1.367489839	1.594089457	1.222334600	NaN	1.501275729
##	YLR155C	YLR156W	YLR157C	YLR157C-A	YLR157C-B	YLR158C
##	NaN	NaN	1.498758324	NA	NA	NaN
##	YLR159W	YLR160C	YLR161W	YLR162W	YLR163C	YLR164W
##	1.670667559	NaN	NaN	NaN	1.418549012	1.418549012
##	YLR165C	YLR166C	YLR167W	YLR168C	YLR169W	YLR170C
##	0.839969407	NaN	NaN	0.121224246	0.121224246	0.214234774
##	YLR171W	YLR172C	YLR173W	YLR174W	YLR175W	YLR176C
##	0.121224246	0.298673708	0.298673708	0.534483677	0.419777176	2.250687453
##	YLR177W	YLR178C	YLR179C	YLR180W	YLR181C	YLR182W
##	2.250687453	0.734583680	NaN	NaN	0.897953163	0.897953163
##	YLR183C	YLR184W	YLR185W	YLR186W	YLR187W	YLR188W
##	1.773229655	1.773229655	NaN	NaN	NaN	NaN
##	YLR189C	YLR190W	YLR191W	YLR192C	YLR193C	YLR194C
##	NaN	NaN	1.992732560	2.162848161	1.130668748	1.701064479
##	YLR195C	YLR196W	YLR197W	YLR198C	YLR199C	YLR200W
##	1.525400075	1.525400075	1.000717137	0.773596538	1.092387261	1.092387261
##	YLR201C	YLR202C	YLR203C	YLR204W	YLR205C	YLR206W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YLR207W	YLR208W	YLR209C	YLR210W	YLR211C	YLR212C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YLR213C	YLR214W	YLR215C	YLR216C	YLR217W	YLR218C
##	1.568923180	1.568923180	0.129439164	2.565730461	0.129439164	1.324171180
##	YLR219W	YLR220W	YLR221C	YLR222C	YLR223C	YLR224W
##	1.324171180	1.057702358	NaN	0.648158284	1.724362848	1.724362848
##	YLR225C	YLR226W	YLR227C	YLR227W-A	YLR227W-B	YLR228C
##	1.001426951	1.001426951	0.588438414	NA	NA	2.508715594
##	YLR229C	YLR230W	YLR231C	YLR232W	YLR233C	YLR234W
##	2.633351494	0.917217917	NaN	NaN	2.114769472	2.114769472
##	YLR235C	YLR236C	YLR237W	YLR238W	YLR239C	YLR240W
##	2.045318175	2.045318175	2.045318175	NaN	NaN	NaN
##	YLR241W	YLR242C	YLR243W	YLR244C	YLR245C	YLR246W
##	0.825400590	1.060654071	1.060654071	NaN	NaN	NaN
##	YLR247C	YLR248W	YLR249W	YLR250W	YLR251W	YLR252W
##	1.363678670	1.363678670	NaN	1.705159399	NaN	NaN
##	YLR253W	YLR254C	YLR255C	YLR256W	YLR256W-A	YLR257W
##	1.526296339	0.585624412	NaN	NaN	NA	NaN
##	YLR258W	YLR259C	YLR260W	YLR261C	YLR262C	YLR263W
##	1.319955128	0.912669746	0.912669746	0.692801007	0.692801007	NaN
##	YLR264W	YLR265C	YLR266C	YLR267W	YLR268W	YLR269C
##	0.524372241	0.025200172	NaN	NaN	0.620105062	NaN
##	YLR270W	YLR271W	YLR272C	YLR273C	YLR274W	YLR275W
##	0.620105062	NaN	NaN	1.921113024	1.921113024	1.876789428
##	YLR276C	YLR277C	YLR278C	YLR279W	YLR280C	YLR281C
##	NaN	0.976727777	2.768312488	2.768312488	2.414058713	2.414058713
##	YLR282C	YLR283W	YLR284C	YLR285W	YLR286C	YLR287C
##	NaN	2.414058713	1.014850326	1.014850326	NaN	NaN
##	YLR287C-A	YLR288C	YLR289W	YLR290C	YLR291C	YLR292C
##	NaN	2.564024637	2.564024637	0.700086734	1.899186645	0.750399985
##	YLR293C	YLR294C	YLR295C	YLR296W	YLR297W	YLR298C
##	NaN	NaN	NaN	NaN	NaN	NaN

##	YLR299W	YLR300W	YLR301W	YLR302C	YLR303W	YLR304C
##	NaN	NaN	NaN	NaN	2.735045785	1.384705097
##	YLR305C	YLR306W	YLR307W	YLR308W	YLR309C	YLR310C
##	1.122958830	1.122958830	1.415279988	1.541278332	2.297103257	1.321666346
##	YLR311C	YLR312C	YLR312W-A	YLR313C	YLR314C	YLR315W
##	1.736545424	1.736545424	1.736545424	0.494777937	NaN	NaN
##	YLR316C	YLR317W	YLR318W	YLR319C	YLR320W	YLR321C
##	0.791197929	NaN	0.791197929	NaN	NaN	NaN
##	YLR322W	YLR323C	YLR324W	YLR325C	YLR326W	YLR327C
##	-0.148778039	1.096102090	1.096102090	NaN	NaN	1.444019181
##	YLR328W	YLR329W	YLR330W	YLR331C	YLR332W	YLR333C
##	NaN	1.198454567	NaN	NaN	1.585759219	1.827693395
##	YLR334C	YLR335W	YLR336C	YLR338W	YLR339C	YLR340W
##	NaN	1.160707969	NaN	NaN	NaN	NaN
##	YLR341W	YLR342W	YLR343W	YLR344W	YLR345W	YLR346C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YLR347C	YLR348C	YLR349W	YLR350W	YLR351C	YLR352W
##	0.991514614	NaN	0.991514614	NaN	NaN	NaN
##	YLR353W	YLR354C	YLR355C	YLR356W	YLR357W	YLR358C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YLR359W	YLR360W	YLR361C	YLR362W	YLR363C	YLR364W
##	NaN	0.745880278	NaN	NaN	2.049708757	2.049708757
##	YLR365W	YLR366W	YLR367W	YLR368W	YLR369W	YLR370C
##	1.527850180	1.527850180	NaN	NaN	NaN	NaN
##	YLR371W	YLR372W	YLR373C	YLR374C	YLR375W	YLR376C
##	NaN	NaN	1.364939901	0.135884537	1.364939901	-0.002696433
##	YLR377C	YLR378C	YLR379W	YLR380W	YLR381W	YLR382C
##	NaN	NaN	NaN	NaN	0.884325661	NaN
##	YLR383W	YLR384C	YLR385C	YLR386W	YLR387C	YLR388W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YLR389C	YLR390W	YLR390W-A	YLR392C	YLR393W	YLR394W
##	2.173099093	2.173099093	NaN	4.014309789	4.014309789	4.014309789
##	YLR395C	YLR396C	YLR397C	YLR398C	YLR399C	YLR400W
##	2.204787637	1.721142769	NaN	0.720934460	NaN	NaN
##	YLR401C	YLR402W	YLR403W	YLR404W	YLR405W	YLR406C
##	NaN	NaN	NaN	1.897405047	1.883371351	NaN
##	YLR407W	YLR408C	YLR409C	YLR410W	YLR410W-A	YLR410W-B
##	NaN	NaN	0.967071843	0.967071843	NA	NA
##	YLR411W	YLR412W	YLR413W	YLR414C	YLR415C	YLR416C
##	NaN	NaN	NaN	1.388974580	0.385035249	0.385035249
##	YLR417W	YLR418C	YLR419W	YLR420W	YLR421C	YLR422W
##	0.385035249	0.714783293	0.714783293	0.911067176	0.486218777	0.486218777
##	YLR423C	YLR424W	YLR425W	YLR426W	YLR427W	YLR428C
##	2.250433822	2.250433822	0.761416860	0.821944543	1.238293158	NaN
##	YLR429W	YLR430W	YLR431C	YLR432W	YLR433C	YLR434C
##	0.485417248	NaN	NaN	NaN	1.571945031	1.571945031
##	YLR435W	YLR436C	YLR437C	YLR438W	YLR439W	YLR440C
##	0.593953253	NaN	NaN	NaN	NaN	NaN
##	YLR441C	YLR442C	YLR443W	YLR444C	YLR445W	YLR446W
##	NaN	1.059294278	1.059294278	1.693837532	1.693837532	0.955276437
##	YLR447C	YLR448W	YLR449W	YLR450W	YLR451W	YLR452C
##	0.578033563	0.578033563	NaN	NaN	1.213976128	NaN
##	YLR453C	YLR454W	YLR455W	YLR456W	YLR457C	YLR458W
##	NaN	NaN	2.507953634	NaN	NaN	0.044317879

##	YLR459W	YLR460C	YLR461W	YLR462W	YLR463C	YLR464W
##	NaN	1.037754897	0.682021209	1.436948597	0.506508791	1.436948597
##	YLR465C	YLR466W	YLR467W	YML001W	YML002W	YML003W
##	0.506508791	1.436948597	0.506508791	NaN	0.956101692	NaN
##	YML004C	YML005W	YML006C	YML007W	YML008C	YML009C
##	NaN	1.050368462	NaN	NaN	NaN	NaN
##	YML010C-B	YML010W	YML010W-A	YML011C	YML012W	YML013C-A
##	NA	NaN	NA	NaN	1.372605054	NA
##	YML013W	YML014W	YML015C	YML016C	YML017W	YML018C
##	NaN	1.611265991	1.611265991	NaN	2.800908282	2.800908282
##	YML019W	YML020W	YML021C	YML022W	YML023C	YML024W
##	1.654832892	1.969062626	1.969062626	1.316499459	1.316499459	NaN
##	YML025C	YML026C	YML027W	YML028W	YML029W	YML030W
##	NaN	NaN	NaN	NaN	0.910730139	0.949552193
##	YML031W	YML032C	YML034W	YML035C	YML035C-A	YML036W
##	1.086811600	0.949552193	1.005461290	1.085104081	NA	0.702356414
##	YML037C	YML038C	YML039W	YML040W	YML041C	YML042W
##	0.702356414	1.672295432	NA	NA	0.522827760	1.483106415
##	YML043C	YML045W	YML045W-A	YML046W	YML047C	YML048W
##	1.483106415	NA	NA	2.680350991	2.680350991	0.079125275
##	YML048W-A	YML049C	YML050W	YML051W	YML052W	YML053C
##	NA	0.079125275	1.194385874	1.064474545	NaN	NaN
##	YML054C	YML055W	YML056C	YML057W	YML058C-A	YML058W
##	1.192931044	NaN	NaN	NaN	NA	NaN
##	YML058W-A	YML059C	YML060W	YML061C	YML062C	YML063W
##	1.261705714	NaN	NaN	NaN	1.591410335	1.218729651
##	YML064C	YML065W	YML066C	YML067C	YML068W	YML069W
##	1.218729651	1.753749031	1.753749031	NaN	NaN	1.600082692
##	YML070W	YML071C	YML072C	YML073C	YML074C	YML075C
##	1.492807972	NaN	1.009619132	NaN	0.910874619	1.226373377
##	YML076C	YML077W	YML078W	YML079W	YML080W	YML081W
##	0.652035673	0.860353409	0.460823835	0.766434788	1.619563759	1.020495885
##	YML082W	YML083C	YML084W	YML085C	YML086C	YML087C
##	NaN	NaN	0.625962223	0.625962223	1.881534991	1.522926720
##	YML088W	YML089C	YML090W	YML091C	YML092C	YML093W
##	NaN	NaN	NaN	NaN	NaN	1.665126905
##	YML094W	YML095C	YML095C-A	YML096W	YML097C	YML098W
##	1.077061302	1.077061302	NA	3.270214398	3.270214398	NaN
##	YML099C	YML100W	YML100W-A	YML101C	YML102C-A	YML102W
##	NaN	NaN	NA	NaN	NA	NaN
##	YML103C	YML104C	YML105C	YML106W	YML107C	YML108W
##	NaN	NaN	0.660847808	0.492470205	0.492470205	1.916905486
##	YML109W	YML110C	YML111W	YML112W	YML113W	YML114C
##	NaN	NaN	2.392873580	NaN	NaN	NaN
##	YML115C	YML116W	YML117W	YML117W-A	YML118W	YML119W
##	NaN	NaN	1.231243143	NA	NaN	1.425437897
##	YML120C	YML121W	YML122C	YML123C	YML124C	YML125C
##	1.425437897	NaN	NaN	NaN	NaN	NaN
##	YML126C	YML127W	YML128C	YML129C	YML130C	YML131W
##	NaN	NaN	NaN	1.224476728	1.440786530	NaN
##	YML132W	YML133C	YMR001C	YMR002W	YMR003W	YMR004W
##	0.379343286	0.739418421	1.734135184	1.734135184	0.840886825	0.952868307
##	YMR005W	YMR006C	YMR007W	YMR008C	YMR009W	YMR010W
##	1.305522179	NaN	NaN	0.793834681	0.793834681	2.194943931

##	YMR011W	YMR012W	YMR013C	YMR014W	YMR015C	YMR016C
##	1.222951858	1.125000128	NaN	NaN	1.157999158	1.559538245
##	YMR017W	YMR018W	YMR019W	YMR020W	YMR021C	YMR022W
##	2.400697447	1.696051117	1.144983916	1.487564202	0.830280731	0.830280731
##	YMR023C	YMR024W	YMR025W	YMR026C	YMR027W	YMR028W
##	0.822510066	0.497117237	0.947292130	NaN	NaN	0.866794748
##	YMR029C	YMR030W	YMR031C	YMR031W-A	YMR032W	YMR033W
##	1.095593837	1.095593837	0.864834850	1.285821056	0.864834850	1.083725558
##	YMR034C	YMR035W	YMR036C	YMR037C	YMR038C	YMR039C
##	2.895207478	2.895207478	NaN	1.919067594	NaN	2.098266161
##	YMR040W	YMR041C	YMR042W	YMR043W	YMR044W	YMR045C
##	2.098266161	1.313919012	NaN	NaN	NaN	NA
##	YMR046C	YMR047C	YMR048W	YMR049C	YMR050C	YMR051C
##	NA	NaN	NaN	1.762587304	NA	NA
##	YMR052C-A	YMR052W	YMR053C	YMR054W	YMR055C	YMR056C
##	NaN	NaN	NaN	NaN	1.271929470	NaN
##	YMR057C	YMR058W	YMR059W	YMR060C	YMR061W	YMR062C
##	1.352404533	1.352404533	NaN	2.160875473	2.160875473	2.016013348
##	YMR063W	YMR064W	YMR065W	YMR066W	YMR067C	YMR068W
##	2.016013348	0.118524631	1.100708421	1.573572046	1.445709495	1.445709495
##	YMR069W	YMR070W	YMR071C	YMR072W	YMR073C	YMR074C
##	NaN	NaN	NaN	NaN	1.027697254	NaN
##	YMR075C-A	YMR075W	YMR076C	YMR077C	YMR078C	YMR079W
##	1.772917249	NaN	NaN	NaN	NaN	NaN
##	YMR080C	YMR081C	YMR082C	YMR083W	YMR084W	YMR085W
##	1.592882646	1.180666134	1.164118432	NaN	1.751127095	0.668849511
##	YMR086C-A	YMR086W	YMR087W	YMR088C	YMR089C	YMR090W
##	NaN	1.937256965	NaN	1.518053310	2.509514068	2.509514068
##	YMR091C	YMR092C	YMR093W	YMR094W	YMR095C	YMR096W
##	NaN	NaN	NaN	NaN	0.829731902	0.829731902
##	YMR097C	YMR098C	YMR099C	YMR100W	YMR101C	YMR102C
##	1.598984980	1.139097284	0.779857528	0.779857528	2.728604161	0.721431389
##	YMR103C	YMR104C	YMR105C	YMR106C	YMR107W	YMR108W
##	0.184500749	NaN	NaN	0.512928466	0.956275905	1.017189353
##	YMR109W	YMR110C	YMR111C	YMR112C	YMR113W	YMR114C
##	1.754132418	0.650942508	1.568475428	NaN	NaN	1.633748262
##	YMR115W	YMR116C	YMR117C	YMR118C	YMR119W	YMR119W-A
##	1.633748262	NaN	NaN	NaN	NaN	NaN
##	YMR120C	YMR121C	YMR122C	YMR122W-A	YMR123W	YMR124W
##	NaN	NaN	NaN	NaN	1.915892188	NaN
##	YMR125W	YMR126C	YMR127C	YMR128W	YMR129W	YMR130W
##	NaN	NaN	NaN	NaN	2.548902846	NaN
##	YMR131C	YMR132C	YMR133W	YMR134W	YMR135C	YMR135W-A
##	0.677227598	0.540994491	0.540994491	0.786077065	NaN	NaN
##	YMR136W	YMR137C	YMR138W	YMR139W	YMR140W	YMR141C
##	NaN	0.995145385	0.995145385	1.001912365	0.298097172	1.010827288
##	YMR142C	YMR143W	YMR144W	YMR145C	YMR146C	YMR147W
##	1.596217508	1.596217508	NaN	NaN	1.031534667	1.031534667
##	YMR148W	YMR149W	YMR150C	YMR151W	YMR152W	YMR153C-A
##	NaN	0.676200366	2.032256458	1.127381068	2.032256458	0.910877504
##	YMR153W	YMR154C	YMR155W	YMR156C	YMR157C	YMR158W
##	1.113600807	1.068846860	1.068846860	NaN	0.932659039	0.932659039
##	YMR158W-A	YMR159C	YMR160W	YMR161W	YMR162C	YMR163C
##	NA	NaN	NaN	0.961905451	NaN	NaN

##	YMR164C	YMR165C	YMR166C	YMR167W	YMR168C	YMR169C
##	3.365923002	NaN	NaN	NaN	0.364165082	NaN
##	YMR170C	YMR171C	YMR172C-A	YMR172W	YMR173W	YMR173W-A
##	NaN	NaN	2.657858940	NaN	2.657858940	2.657858940
##	YMR174C	YMR175W	YMR176W	YMR177W	YMR178W	YMR179W
##	2.495712607	2.495712607	1.702962641	1.070375417	1.598642413	NaN
##	YMR180C	YMR181C	YMR182C	YMR183C	YMR184W	YMR185W
##	NaN	NaN	NaN	0.720825539	0.720825539	1.486586483
##	YMR186W	YMR187C	YMR188C	YMR189W	YMR190C	YMR191W
##	0.810227178	1.640370862	0.677390538	0.677390538	0.811267099	0.811267099
##	YMR192W	YMR193C-A	YMR193W	YMR194W	YMR195W	YMR196W
##	1.321329925	1.479512848	0.796024733	1.512151209	NaN	NaN
##	YMR197C	YMR198W	YMR199W	YMR200W	YMR201C	YMR202W
##	2.465986196	2.465986196	NaN	NaN	1.440287275	1.440287275
##	YMR203W	YMR204C	YMR205C	YMR206W	YMR207C	YMR208W
##	NaN	0.823392723	1.176957224	1.176957224	NaN	NaN
##	YMR209C	YMR210W	YMR211W	YMR212C	YMR213W	YMR214W
##	0.561984353	0.561984353	1.028589147	1.381506828	1.381506828	0.766151605
##	YMR215W	YMR216C	YMR217W	YMR218C	YMR219W	YMR220W
##	NaN	NaN	NaN	3.341403456	3.341403456	0.576593931
##	YMR221C	YMR222C	YMR223W	YMR224C	YMR225C	YMR226C
##	0.888313835	0.809531068	0.809531068	0.488634109	0.931345215	0.742456068
##	YMR227C	YMR228W	YMR229C	YMR230W	YMR231W	YMR232W
##	1.272331559	1.272331559	NaN	NaN	1.966822480	1.841205430
##	YMR233W	YMR234W	YMR235C	YMR236W	YMR237W	YMR238W
##	0.121982421	1.890322810	1.594614536	1.594614536	1.492346548	NaN
##	YMR239C	YMR240C	YMR241W	YMR242C	YMR243C	YMR244C-A
##	0.534130600	NaN	NaN	NaN	1.509587864	NaN
##	YMR244W	YMR245W	YMR246W	YMR247C	YMR250W	YMR251W
##	1.509587864	NaN	NaN	1.634607759	NaN	0.941850590
##	YMR251W-A	YMR252C	YMR253C	YMR254C	YMR255W	YMR256C
##	NaN	NaN	1.180585919	NaN	NaN	NaN
##	YMR257C	YMR258C	YMR259C	YMR260C	YMR261C	YMR262W
##	0.995813191	1.130196202	2.874170666	NaN	NaN	NaN
##	YMR263W	YMR264W	YMR265C	YMR266W	YMR267W	YMR268C
##	NaN	1.321788046	NaN	NaN	NaN	1.660155173
##	YMR269W	YMR270C	YMR271C	YMR272C	YMR273C	YMR274C
##	1.660155173	0.932351424	NaN	1.301874415	0.740028337	1.212266821
##	YMR275C	YMR276W	YMR277W	YMR278W	YMR279C	YMR280C
##	0.470112478	0.470112478	NaN	NaN	NaN	1.430301585
##	YMR281W	YMR282C	YMR283C	YMR284W	YMR285C	YMR286W
##	1.430301585	NaN	0.903002515	2.677338586	0.662215316	0.662215316
##	YMR287C	YMR288W	YMR289W	YMR290C	YMR290W-A	YMR291W
##	0.419499363	0.419499363	0.915917133	1.310449256	NaN	1.310449256
##	YMR292W	YMR293C	YMR294W	YMR294W-A	YMR295C	YMR296C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YMR297W	YMR298W	YMR299C	YMR300C	YMR301C	YMR302C
##	NaN	NaN	NaN	1.463252280	1.244690009	NaN
##	YMR303C	YMR304C-A	YMR304W	YMR305C	YMR306C-A	YMR306W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YMR307W	YMR308C	YMR309C	YMR310C	YMR311C	YMR312W
##	NaN	2.312603299	2.895290327	0.231241051	1.329497591	1.329497591
##	YMR313C	YMR314W	YMR315W	YMR316C-A	YMR316C-B	YMR316W
##	1.038962838	1.038962838	1.939946599	NaN	0.653718348	0.735382100

##	YMR317W	YMR318C	YMR319C	YMR320W	YMR321C	YMR322C
##	NaN	0.925231772	0.547659217	1.817423710	1.209811324	1.196891622
##	YMR323W	YMR324C	YMR325W	YNL001W	YNL002C	YNL003C
##	1.196891622	0.346737254	0.346737254	0.721362293	0.721362293	0.934250367
##	YNL004W	YNL005C	YNL006W	YNL007C	YNL008C	YNL009W
##	2.226678027	2.226678027	0.730484016	0.730484016	1.015957133	NaN
##	YNL010W	YNL011C	YNL012W	YNL013C	YNL014W	YNL015W
##	1.471878687	1.471878687	NaN	NaN	NaN	1.520874079
##	YNL016W	YNL017C	YNL018C	YNL019C	YNL020C	YNL021W
##	NaN	NaN	1.041782046	1.673620332	1.552188863	0.862632965
##	YNL022C	YNL023C	YNL024C	YNL025C	YNL026W	YNL027W
##	0.862632965	NaN	NaN	NaN	0.939340561	0.794035405
##	YNL028W	YNL029C	YNL030W	YNL031C	YNL032W	YNL033W
##	NaN	0.794035405	NaN	NaN	NaN	1.591810990
##	YNL034W	YNL035C	YNL036W	YNL037C	YNL038W	YNL039W
##	NaN	NaN	0.915899632	0.915899632	0.869540511	2.022096728
##	YNL040W	YNL041C	YNL042W	YNL043C	YNL044W	YNL045W
##	NaN	NaN	-0.274464137	1.410256900	NaN	0.023961949
##	YNL046W	YNL047C	YNL048W	YNL049C	YNL050C	YNL051W
##	NaN	NaN	NaN	NaN	0.420262776	1.377002095
##	YNL052W	YNL053W	YNL054W	YNL054W-A	YNL054W-B	YNL055C
##	NaN	0.625202472	NaN	NA	NA	0.669547580
##	YNL056W	YNL057W	YNL058C	YNL059C	YNL061W	YNL062C
##	1.187104864	NaN	1.187104864	NaN	1.049192043	1.049192043
##	YNL063W	YNL064C	YNL065W	YNL066W	YNL067W	YNL068C
##	2.113876931	2.113876931	NaN	NaN	NaN	NaN
##	YNL069C	YNL070W	YNL071W	YNL072W	YNL073W	YNL074C
##	0.736598052	1.450207228	NaN	NaN	0.611119879	0.611119879
##	YNL075W	YNL076W	YNL077W	YNL078W	YNL079C	YNL080C
##	0.739422572	NaN	2.091834087	NaN	NaN	NaN
##	YNL081C	YNL082W	YNL083W	YNL084C	YNL085W	YNL086W
##	0.957792900	NaN	1.194012240	1.194012240	NaN	NaN
##	YNL087W	YNL088W	YNL089C	YNL090W	YNL091W	YNL092W
##	NaN	NaN	NaN	0.746672025	2.612220554	0.736809837
##	YNL093W	YNL094W	YNL095C	YNL096C	YNL097C	YNL098C
##	1.208481572	1.133859280	1.133859280	1.604876255	NaN	NaN
##	YNL099C	YNL100W	YNL101W	YNL102W	YNL103W	YNL104C
##	0.968265160	NaN	NaN	NaN	NaN	NaN
##	YNL105W	YNL106C	YNL107W	YNL108C	YNL109W	YNL110C
##	NaN	NaN	0.897479514	0.897479514	NaN	NaN
##	YNL111C	YNL112W	YNL113W	YNL114C	YNL115C	YNL116W
##	NaN	NaN	1.266962050	NaN	1.266962050	1.211600560
##	YNL117W	YNL118C	YNL119W	YNL120C	YNL121C	YNL122C
##	0.520476074	0.520476074	1.765910413	NaN	1.765910413	1.182765493
##	YNL123W	YNL124W	YNL125C	YNL126W	YNL127W	YNL128W
##	1.107141258	2.156728051	2.156728051	NaN	0.939579297	0.854041961
##	YNL129W	YNL130C	YNL131W	YNL132W	YNL133C	YNL134C
##	1.135636468	1.135636468	0.819558324	NaN	1.418414996	2.139125571
##	YNL135C	YNL136W	YNL137C	YNL138W	YNL139C	YNL140C
##	0.612891264	0.873724583	0.873724583	2.178256846	2.178256846	2.178256846
##	YNL141W	YNL142W	YNL143C	YNL144C	YNL145W	YNL146W
##	1.216443347	0.403342963	0.403342963	0.845198786	NaN	0.980882111
##	YNL147W	YNL148C	YNL149C	YNL150W	YNL151C	YNL152W
##	0.393309558	0.393309558	NaN	1.573650549	1.573650549	0.723437987



##	YNL153C	YNL154C	YNL155W	YNL156C	YNL157W	YNL158W
##	0.723437987	NaN	NaN	NaN	NaN	NaN
##	YNL159C	YNL160W	YNL161W	YNL162W	YNL163C	YNL164C
##	NaN	NaN	NaN	0.903738272	0.903738272	NaN
##	YNL165W	YNL166C	YNL167C	YNL168C	YNL169C	YNL170W
##	NaN	NaN	1.883204348	1.474213932	NaN	1.004337550
##	YNL171C	YNL172W	YNL173C	YNL174W	YNL175C	YNL176C
##	NaN	1.004337550	1.004337550	0.907061946	NaN	0.907061946
##	YNL177C	YNL178W	YNL179C	YNL180C	YNL181W	YNL182C
##	NaN	1.107302555	0.989323684	0.989323684	NaN	NaN
##	YNL183C	YNL184C	YNL185C	YNL186W	YNL187W	YNL188W
##	1.213571279	0.795480826	0.795480826	NaN	NaN	0.817665702
##	YNL189W	YNL190W	YNL191W	YNL192W	YNL193W	YNL194C
##	NaN	1.243176013	NaN	NaN	1.193747637	1.193747637
##	YNL195C	YNL196C	YNL197C	YNL198C	YNL199C	YNL200C
##	1.048941986	NaN	1.358789252	1.654918259	1.654918259	1.617016404
##	YNL201C	YNL202W	YNL203C	YNL204C	YNL205C	YNL206C
##	1.429071096	0.387773497	0.584087655	0.387773497	0.387773497	0.387773497
##	YNL207W	YNL208W	YNL209W	YNL210W	YNL211C	YNL212W
##	0.669309638	1.544809288	1.059191973	1.459632653	1.459632653	0.678074970
##	YNL213C	YNL214W	YNL215W	YNL216W	YNL217W	YNL218W
##	0.678074970	1.079793290	1.039712998	1.910470975	NaN	NaN
##	YNL219C	YNL220W	YNL221C	YNL222W	YNL223W	YNL224C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YNL225C	YNL226W	YNL227C	YNL228W	YNL229C	YNL230C
##	NaN	NaN	1.850069592	NaN	NaN	1.494332939
##	YNL231C	YNL232W	YNL233W	YNL234W	YNL235C	YNL236W
##	NaN	0.797915652	NaN	NaN	NaN	1.756451534
##	YNL237W	YNL238W	YNL239W	YNL240C	YNL241C	YNL242W
##	NaN	NaN	0.689366817	0.689366817	NaN	0.865273704
##	YNL243W	YNL244C	YNL245C	YNL246W	YNL247W	YNL248C
##	3.153534791	3.153534791	NaN	0.748185427	NaN	NaN
##	YNL249C	YNL250W	YNL251C	YNL252C	YNL253W	YNL254C
##	0.623648457	NaN	NaN	0.570480978	1.003654283	1.003654283
##	YNL255C	YNL256W	YNL257C	YNL258C	YNL259C	YNL260C
##	NaN	1.725479251	1.725479251	1.395835292	NaN	0.438412785
##	YNL261W	YNL262W	YNL263C	YNL264C	YNL265C	YNL266W
##	0.352672684	NaN	NaN	0.654221922	0.963322032	1.143405524
##	YNL267W	YNL268W	YNL269W	YNL270C	YNL271C	YNL272C
##	NaN	1.979529693	NaN	1.979529693	NaN	NaN
##	YNL273W	YNL274C	YNL275W	YNL276C	YNL277W	YNL278W
##	NaN	NaN	1.221643476	1.221643476	0.881997868	0.418513197
##	YNL279W	YNL280C	YNL281W	YNL282W	YNL283C	YNL284C
##	1.171433234	1.171433234	NaN	0.350837770	0.350837770	1.503481128
##	YNL284C-A	YNL284C-B	YNL285W	YNL286W	YNL287W	YNL288W
##	NA	NA	1.841399610	2.868077776	NaN	NaN
##	YNL289W	YNL290W	YNL291C	YNL292W	YNL293W	YNL294C
##	NaN	1.142114041	1.142114041	1.432590424	0.893400154	0.893400154
##	YNL295W	YNL296W	YNL297C	YNL298W	YNL299W	YNL300W
##	NaN	1.070849824	NaN	NaN	NaN	NaN
##	YNL301C	YNL302C	YNL303W	YNL304W	YNL305C	YNL306W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YNL307C	YNL308C	YNL309W	YNL310C	YNL311C	YNL312W
##	NaN	NaN	NaN	0.628544171	NaN	NaN

##	YNL313C	YNL314W	YNL315C	YNL316C	YNL317W	YNL318C
##	NaN	0.100730196	0.100730196	0.115319857	NaN	NaN
##	YNL319W	YNL320W	YNL321W	YNL322C	YNL323W	YNL324W
##	0.828174223	0.867628973	NaN	NaN	NaN	0.748329425
##	YNL325C	YNL326C	YNL327W	YNL328C	YNL329C	YNL330C
##	NaN	0.748329425	1.233972907	1.233972907	0.677616376	NaN
##	YNL331C	YNL332W	YNL333W	YNL334C	YNL335W	YNL336W
##	1.447549011	1.297941843	NaN	NaN	1.159879771	1.239154411
##	YNL337W	YNL338W	YNL339C	YNR001C	YNR002C	YNR003C
##	0.785879339	-0.110937914	-0.110937914	2.585985554	1.452558700	1.608968544
##	YNR004W	YNR005C	YNR006W	YNR007C	YNR008W	YNR009W
##	1.608968544	1.125642999	1.393213826	0.639360960	0.639360960	NaN
##	YNR010W	YNR011C	YNR012W	YNR013C	YNR014W	YNR015W
##	0.855290257	0.742666428	0.742666428	0.783554028	0.783554028	1.775858395
##	YNR016C	YNR017W	YNR018W	YNR019W	YNR020C	YNR021W
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YNR022C	YNR023W	YNR024W	YNR025C	YNR026C	YNR027W
##	NaN	NaN	NaN	0.677391326	NaN	NaN
##	YNR028W	YNR029C	YNR030W	YNR031C	YNR032W	YNR033W
##	NaN	NaN	NaN	NaN	NaN	1.007801762
##	YNR034W	YNR034W-A	YNR035C	YNR036C	YNR037C	YNR038W
##	-0.012064218	0.359774011	0.685499906	2.439811192	0.552947705	0.552947705
##	YNR039C	YNR040W	YNR041C	YNR042W	YNR043W	YNR044W
##	0.486193245	0.486193245	0.363415024	0.662726335	0.363415024	NaN
##	YNR045W	YNR046W	YNR047W	YNR048W	YNR049C	YNR050C
##	0.787999634	NaN	1.962232000	0.717465235	0.744537803	1.220965612
##	YNR051C	YNR052C	YNR053C	YNR054C	YNR055C	YNR056C
##	1.582610100	NaN	NaN	NaN	0.595760672	0.694476553
##	YNR057C	YNR058W	YNR059W	YNR060W	YNR061C	YNR062C
##	0.694476553	0.694476553	0.915979971	1.076847412	0.861040786	NaN
##	YNR063W	YNR064C	YNR065C	YNR066C	YNR067C	YNR068C
##	0.832962640	0.719465552	NaN	NaN	NaN	0.911844236
##	YNR069C	YNR070W	YNR071C	YNR072W	YNR073C	YNR074C
##	2.779958773	1.150129543	NaN	NaN	NaN	1.347558891
##	YNR075W	YNR076W	YOL001W	YOL002C	YOL003C	YOL004W
##	1.347558891	0.924988441	1.207111206	1.207111206	0.975469709	NaN
##	YOL005C	YOL006C	YOL007C	YOL008W	YOL009C	YOL010W
##	NaN	NaN	0.894811690	1.305589362	1.305589362	1.523219416
##	YOL011W	YOL012C	YOL013C	YOL014W	YOL015W	YOL016C
##	NaN	NaN	0.651732086	0.916713672	1.161019671	1.161019671
##	YOL017W	YOL018C	YOL019W	YOL020W	YOL021C	YOL022C
##	NaN	NaN	1.240593106	0.688607023	0.688607023	1.678201956
##	YOL023W	YOL024W	YOL025W	YOL026C	YOL027C	YOL028C
##	NaN	NaN	NaN	NaN	0.830700825	1.076575801
##	YOL029C	YOL030W	YOL031C	YOL032W	YOL033W	YOL034W
##	NaN	NaN	NaN	NaN	1.374392511	NaN
##	YOL035C	YOL036W	YOL037C	YOL038W	YOL039W	YOL040C
##	1.269194674	NaN	1.269194674	NaN	1.766853776	1.766853776
##	YOL041C	YOL042W	YOL043C	YOL044W	YOL045W	YOL046C
##	NaN	NaN	NaN	NaN	NaN	NaN
##	YOL047C	YOL048C	YOL049W	YOL050C	YOL051W	YOL052C
##	NaN	0.905953736	1.437965441	1.437965441	1.367989892	1.367989892
##	YOL052C-A	YOL053W	YOL054W	YOL055C	YOL056W	YOL057W
##	0.650531471	1.068160675	NaN	0.808021023	1.078166005	NaN

##	YOL058W	YOL059W	YOL060C	YOL061W	YOL062C	YOL063C
##	1.457552538	NaN	NaN	0.687016834	0.687016834	0.419800828
##	YOL064C	YOL065C	YOL066C	YOL067C	YOL068C	YOL069W
##	NaN	0.909996454	NaN	0.749669004	0.017232594	0.581510535
##	YOL070C	YOL071W	YOL072W	YOL073C	YOL075C	YOL076W
##	0.581510535	0.437910588	-0.081976174	-0.081976174	0.738589701	NaN
##	YOL077C	YOL077W-A	YOL078W	YOL079W	YOL080C	YOL081W
##	NaN	1.097013387	1.097013387	0.365339870	1.097013387	0.768059427
##	YOL082W	YOL083W	YOL084W	YOL085C	YOL086C	YOL087C
##	NaN	1.487898209	2.068624468	2.068624468	NaN	NaN
##	YOL088C	YOL089C	YOL090W	YOL091W	YOL092W	YOL093W
##	1.638930955	NaN	NaN	NaN	NaN	NaN
##	YOL094C	YOL095C	YOL096C	YOL097C	YOL098C	YOL099C
##	NaN	NaN	0.597883965	1.382832928	1.883365592	0.534959794
##	YOL100W	YOL101C	YOL102C	YOL103W	YOL103W-A	YOL103W-B
##	NaN	NaN	0.721539154	1.327255134	NA	NA
##	YOL104C	YOL105C	YOL106W	YOL107W	YOL108C	YOL109W
##	3.124872736	1.141140211	NaN	NaN	NaN	4.872849536
##	YOL110W	YOL111C	YOL112W	YOL113W	YOL114C	YOL115W
##	0.898103412	0.898103412	NaN	NaN	NaN	NaN
##	YOL116W	YOL117W	YOL118C	YOL119C	YOL120C	YOL121C
##	1.344560025	NaN	NaN	1.245930749	NaN	-0.032760723
##	YOL122C	YOL123W	YOL124C	YOL125W	YOL126C	YOL127W
##	NaN	NaN	NaN	1.318898045	1.318898045	0.650088310
##	YOL128C	YOL129W	YOL130W	YOL131W	YOL132W	YOL133W
##	0.650088310	1.306368773	1.110720582	2.840490603	1.111338624	2.479829553
##	YOL134C	YOL135C	YOL136C	YOL137W	YOL138C	YOL139C
##	1.111338624	2.479829553	1.874757155	0.973473831	0.973473831	2.959484703
##	YOL140W	YOL141W	YOL142W	YOL143C	YOL144W	YOL145C
##	0.730370574	1.411124524	0.739117057	0.739117057	0.922267350	0.922267350
##	YOL146W	YOL147C	YOL148C	YOL149W	YOL150C	YOL151W
##	0.090783476	0.090783476	0.720942261	0.775344400	0.775344400	1.589502013
##	YOL152W	YOL153C	YOL154W	YOL155C	YOL156W	YOL157C
##	1.258199488	1.109170445	2.156415185	0.276605762	0.809453256	0.809453256
##	YOL158C	YOL159C	YOL160W	YOL161C	YOL162W	YOL163W
##	0.842613461	1.766706346	NaN	0.792009838	1.762073973	1.762073973
##	YOL164W	YOL165C	YOL166C	YOR001W	YOR002W	YOR003W
##	1.399305870	NaN	0.777184035	NaN	0.689159596	0.303172664
##	YOR004W	YOR005C	YOR006C	YOR007C	YOR008C	YOR008C-A
##	NaN	1.382155957	0.699206482	0.743847235	1.301224329	NaN
##	YOR009W	YOR010C	YOR011W	YOR012W	YOR013W	YOR014W
##	NaN	3.039321078	0.457522770	2.073372997	2.073372997	1.150217938
##	YOR015W	YOR016C	YOR017W	YOR018W	YOR019W	YOR020C
##	1.150217938	1.232770983	1.232770983	0.845279436	1.161824845	0.382833339
##	YOR021C	YOR022C	YOR023C	YOR024W	YOR025W	YOR026W
##	0.697315804	0.387623926	0.867215290	0.867215290	0.867215290	1.619809523
##	YOR027W	YOR028C	YOR029W	YOR030W	YOR031W	YOR032C
##	0.718417143	-0.419131487	-0.419131487	1.063893076	0.486359387	2.004859589
##	YOR033C	YOR034C	YOR035C	YOR036W	YOR037W	YOR038C
##	NaN	0.889588283	0.956826687	0.956826687	1.433142983	0.757818543
##	YOR039W	YOR040W	YOR041C	YOR042W	YOR043W	YOR044W
##	0.757818543	0.590057948	0.716378479	NaN	NaN	2.354954778
##	YOR045W	YOR046C	YOR047C	YOR048C	YOR049C	YOR050C
##	0.814416132	0.982603096	1.303411478	1.040090063	0.690543379	0.491069970

##	YOR051C	YOR052C	YOR053W	YOR054C	YOR055W	YOR056C
##	0.800414850	1.192801864	1.192801864	1.719790336	1.192801864	NaN
##	YOR057W	YOR058C	YOR059C	YOR060C	YOR061W	YOR062C
##	NaN	NaN	1.123041004	1.147153417	1.147153417	1.941357909
##	YOR063W	YOR064C	YOR065W	YOR066W	YOR067C	YOR068C
##	1.941357909	2.525285287	2.525285287	NaN	NaN	NaN
##	YOR069W	YOR070C	YOR071C	YOR072W	YOR073W	YOR074C
##	NaN	0.792915390	0.846580584	0.846580584	2.615172507	NaN
##	YOR075W	YOR076C	YOR077W	YOR078W	YOR079C	YOR080W
##	NaN	NaN	NaN	1.199637593	0.263291644	0.263291644
##	YOR081C	YOR082C	YOR083W	YOR084W	YOR085W	YOR086C
##	0.187787162	NaN	0.187787162	NaN	0.908482605	NaN
##	YOR087W	YOR088W	YOR089C	YOR090C	YOR091W	YOR092W
##	NaN	NaN	NaN	1.173923572	1.173923572	NaN
##	YOR093C	YOR094W	YOR095C	YOR096W	YOR097C	YOR098C
##	1.804932534	1.804932534	0.895047382	0.895047382	1.519551004	NaN
##	YOR099W	YOR100C	YOR101W	YOR102W	YOR103C	YOR104W
##	NaN	2.886959740	2.886959740	NaN	NaN	NaN
##	YOR105W	YOR106W	YOR107W	YOR108W	YOR109W	YOR110W
##	NaN	NaN	1.613176718	NaN	NaN	NaN
##	YOR111W	YOR112W	YOR113W	YOR114W	YOR115C	YOR116C
##	0.146575162	NaN	1.381818230	NaN	NaN	1.506406395
##	YOR117W	YOR118W	YOR119C	YOR120W	YOR121C	YOR122C
##	1.506406395	NaN	NaN	NaN	0.268238918	1.245426547
##	YOR123C	YOR124C	YOR125C	YOR126C	YOR127W	YOR128C
##	0.493140947	2.149141814	0.701560776	0.911565065	0.911565065	0.331139336
##	YOR129C	YOR130C	YOR131C	YOR132W	YOR133W	YOR134W
##	0.942487007	0.893738427	0.773594915	0.773594915	NaN	0.672335177
##	YOR135C	YOR136W	YOR137C	YOR138C	YOR139C	YOR140W
##	0.777184442	2.411168960	0.898216159	NaN	1.578792498	NaN
##	YOR141C	YOR142W	YOR142W-A	YOR142W-B	YOR143C	YOR144C
##	NaN	NaN	NA	NA	NaN	NaN
##	YOR145C	YOR146W	YOR147W	YOR148C	YOR149C	YOR150W
##	2.230717616	NaN	2.230717616	1.305302568	0.687353171	0.687353171
##	YOR151C	YOR152C	YOR153W	YOR154W	YOR155C	YOR156C
##	1.512286869	2.146841276	0.193316276	0.577336295	0.085171359	0.612644178
##	YOR157C	YOR158W	YOR159C	YOR160W	YOR161C	YOR162C
##	1.243689071	1.243689071	0.660928980	0.660928980	NaN	1.109257949
##	YOR163W	YOR164C	YOR165W	YOR166C	YOR167C	YOR168W
##	1.109257949	0.731125926	0.731125926	1.504131776	1.011272676	1.011272676
##	YOR169C	YOR170W	YOR171C	YOR172W	YOR173W	YOR174W
##	0.950407647	1.011272676	0.950407647	0.950407647	0.741997451	0.703901913
##	YOR175C	YOR176W	YOR177C	YOR178C	YOR179C	YOR180C
##	1.139237329	1.139237329	0.225398549	0.599590560	0.901533670	1.521130627
##	YOR181W	YOR182C	YOR183W	YOR184W	YOR185C	YOR186W
##	1.521130627	0.077037818	0.077037818	1.848711515	1.700060107	1.700060107
##	YOR187W	YOR188W	YOR189W	YOR190W	YOR191W	YOR192C
##	0.785703521	NaN	0.725679454	2.848074693	0.856136792	2.210833342
##	YOR192C-A	YOR192C-B	YOR193W	YOR194C	YOR195W	YOR196C
##	NA	NA	-0.004776148	0.693779788	0.693779788	0.344993363
##	YOR197W	YOR198C	YOR199W	YOR200W	YOR201C	YOR202W
##	0.344993363	0.218429272	0.218429272	0.218429272	NaN	NaN
##	YOR203W	YOR204W	YOR205C	YOR206W	YOR207C	YOR208W
##	NaN	NaN	0.905307546	0.905307546	3.150226371	3.150226371

##	YOR209C	YOR210W	YOR211C	YOR212W	YOR213C	YOR214C
##	0.985993424	0.985993424	1.560408743	1.560408743	1.566568524	0.876392416
##	YOR215C	YOR216C	YOR217W	YOR218C	YOR219C	YOR220W
##	1.059042950	0.726221229	0.726221229	0.848257358	0.681038136	0.681038136
##	YOR221C	YOR222W	YOR223W	YOR224C	YOR225W	YOR226C
##	1.142212503	1.142212503	NaN	NaN	NaN	1.527247737
##	YOR227W	YOR228C	YOR229W	YOR230W	YOR231W	YOR232W
##	1.527247737	1.321207519	1.321207519	1.671305047	1.380852817	0.915546886
##	YOR233W	YOR234C	YOR236W	YOR237W	YOR238W	YOR239W
##	1.673018674	1.130185805	NaN	1.717192311	NaN	2.189341888
##	YOR240W	YOR241W	YOR242C	YOR243C	YOR244W	YOR245C
##	2.189341888	NaN	NaN	1.024445967	1.024445967	2.370156859
##	YOR246C	YOR247W	YOR248W	YOR249C	YOR250C	YOR251C
##	NaN	NaN	NaN	0.630533243	0.095026724	1.012462684
##	YOR252W	YOR253W	YOR254C	YOR255W	YOR256C	YOR257W
##	1.012462684	-0.349552612	0.494046358	0.494046358	2.001284492	2.001284492
##	YOR258W	YOR259C	YOR260W	YOR261C	YOR262W	YOR263C
##	0.087208831	0.805648382	0.805648382	1.868997660	1.868997660	NaN
##	YOR264W	YOR265W	YOR266W	YOR267C	YOR268C	YOR269W
##	2.262102681	NaN	NaN	0.769978207	NaN	NaN
##	YOR270C	YOR271C	YOR272W	YOR273C	YOR274W	YOR275C
##	NaN	0.789635345	2.385284451	NaN	NaN	NaN
##	YOR276W	YOR277C	YOR278W	YOR279C	YOR280C	YOR281C
##	NaN	NaN	NaN	NaN	1.714168196	NaN
##	YOR282W	YOR283W	YOR284W	YOR285W	YOR286W	YOR287C
##	1.714168196	NaN	1.381858215	NaN	2.304697875	1.343520786
##	YOR288C	YOR289W	YOR290C	YOR291W	YOR292C	YOR293W
##	NaN	NaN	NaN	NaN	2.826958619	2.826958619
##	YOR294W	YOR295W	YOR296W	YOR297C	YOR298W	YOR299W
##	1.793552149	NaN	2.171387672	NaN	NaN	1.958107670
##	YOR300W	YOR301W	YOR302W	YOR303W	YOR304C-A	YOR304W
##	1.958107670	1.477036998	NaN	NaN	0.641719909	0.724329843
##	YOR305W	YOR306C	YOR307C	YOR308C	YOR309C	YOR310C
##	0.641719909	1.644867008	0.912526626	0.525479155	NaN	NaN
##	YOR311C	YOR312C	YOR313C	YOR314W	YOR315W	YOR316C
##	NaN	NaN	NaN	NaN	NaN	2.603621371
##	YOR317W	YOR318C	YOR319W	YOR320C	YOR321W	YOR322C
##	1.023624264	2.961528662	2.961528662	1.401455854	1.401455854	0.973985337
##	YOR323C	YOR324C	YOR325W	YOR326W	YOR327C	YOR328W
##	NaN	1.127724139	NaN	1.127724139	NaN	NaN
##	YOR329C	YOR330C	YOR331C	YOR332W	YOR333C	YOR334W
##	NaN	NaN	0.618394261	NaN	NaN	0.618394261
##	YOR335C	YOR336W	YOR337W	YOR338W	YOR339C	YOR340C
##	0.580097158	0.580097158	1.418540854	NaN	NaN	NaN
##	YOR341W	YOR342C	YOR343C	YOR343C-A	YOR343C-B	YOR344C
##	NaN	NaN	NaN	NA	NA	NaN
##	YOR345C	YOR346W	YOR347C	YOR348C	YOR349W	YOR350C
##	NaN	0.580673359	2.094438232	NaN	NaN	0.275808337
##	YOR351C	YOR352W	YOR353C	YOR354C	YOR355W	YOR356W
##	NaN	NaN	1.220861298	NaN	NaN	NaN
##	YOR357C	YOR358W	YOR359W	YOR360C	YOR361C	YOR362C
##	NaN	NaN	1.088457974	1.175853408	0.377953712	1.635326792
##	YOR363C	YOR364W	YOR365C	YOR366W	YOR367W	YOR368W
##	0.027681423	0.027681423	0.756889411	0.027681423	0.756889411	0.460860824

##	YOR369C	YOR370C	YOR371C	YOR372C	YOR373W	YOR374W
##	NaN	1.331440776	2.338137431	NaN	NaN	0.970022935
##	YOR375C	YOR376W	YOR377W	YOR378W	YOR379C	YOR380W
##	0.018115516	0.018115516	0.704958054	1.821260156	1.584053434	1.584053434
##	YOR381W	YOR382W	YOR383C	YOR384W	YOR385W	YOR386W
##	1.085048398	0.956455335	1.084678892	1.084678892	2.833353613	1.337803931
##	YOR387C	YOR388C	YOR389W	YOR390W	YOR391C	YOR392W
##	0.865276729	0.560142916	0.560142916	0.837211739	NaN	0.972182912
##	YOR393W	YOR394W	YOR396W	YPL001W	YPL002C	YPL003W
##	NaN	0.840347529	NA	1.239512723	1.239512723	1.327560926
##	YPL004C	YPL005W	YPL006W	YPL007C	YPL008W	YPL009C
##	1.327560926	1.114117645	0.852435038	0.852435038	1.619988348	1.619988348
##	YPL010W	YPL011C	YPL012W	YPL013C	YPL014W	YPL015C
##	1.751983414	1.751983414	0.615958758	0.615958758	1.778866204	1.778866204
##	YPL016W	YPL017C	YPL018W	YPL019C	YPL020C	YPL021W
##	1.307242517	1.307242517	NaN	NaN	1.066261297	0.665867681
##	YPL022W	YPL023C	YPL024W	YPL025C	YPL026C	YPL027W
##	1.506012675	1.506012675	1.955165493	1.955165493	0.746821990	1.520567053
##	YPL028W	YPL029W	YPL030W	YPL031C	YPL032C	YPL033C
##	1.156927408	0.655644448	1.418998134	1.418998134	NaN	NaN
##	YPL034W	YPL035C	YPL036W	YPL037C	YPL038W	YPL039W
##	1.151021477	NaN	NaN	NaN	0.925326304	0.212676266
##	YPL040C	YPL041C	YPL042C	YPL043W	YPL044C	YPL045W
##	0.212676266	0.861023319	0.296187388	0.334176945	NaN	NaN
##	YPL046C	YPL047W	YPL048W	YPL049C	YPL050C	YPL051W
##	NaN	NaN	1.335235565	1.335235565	NaN	NaN
##	YPL052W	YPL053C	YPL054W	YPL055C	YPL056C	YPL057C
##	1.785601154	1.785601154	1.909661431	1.909661431	NaN	NaN
##	YPL058C	YPL059W	YPL060C-A	YPL060W	YPL061W	YPL062W
##	2.576261087	1.297749407	NA	NaN	1.484253581	1.079170832
##	YPL063W	YPL064C	YPL065W	YPL066W	YPL067C	YPL068C
##	0.386373761	0.386373761	1.227520504	1.118981808	1.118981808	2.575637093
##	YPL069C	YPL070W	YPL071C	YPL072W	YPL073C	YPL074W
##	0.813918014	1.122223037	1.122223037	1.176454160	1.122223037	NaN
##	YPL075W	YPL076W	YPL077C	YPL078C	YPL079W	YPL080C
##	1.170000767	2.460575455	2.460575455	0.213726275	NaN	NaN
##	YPL081W	YPL082C	YPL083C	YPL084W	YPL085W	YPL086C
##	NaN	NaN	0.941117634	0.919155353	1.339638502	1.339638502
##	YPL087W	YPL088W	YPL089C	YPL090C	YPL091W	YPL092W
##	1.421084209	0.533896274	0.533896274	1.789358987	1.440278577	1.526658468
##	YPL093W	YPL094C	YPL095C	YPL096W	YPL097W	YPL098C
##	NaN	NaN	1.191633152	NaN	0.784464678	0.784464678
##	YPL099C	YPL100W	YPL101W	YPL102C	YPL103C	YPL104W
##	2.101448891	1.189394002	1.548174455	1.189394002	1.548174455	NaN
##	YPL105C	YPL106C	YPL107W	YPL108W	YPL109C	YPL110C
##	NaN	1.244979244	0.942277861	0.942277861	0.942277861	1.717242791
##	YPL111W	YPL112C	YPL113C	YPL114W	YPL115C	YPL116W
##	2.111594788	1.469980704	NaN	3.495598408	3.495598408	2.252003988
##	YPL117C	YPL118W	YPL119C	YPL120W	YPL121C	YPL122C
##	2.252003988	1.210021091	1.210021091	NaN	NaN	1.315636073
##	YPL123C	YPL124W	YPL125W	YPL126W	YPL127C	YPL128C
##	1.116802499	NaN	0.912278290	NaN	NaN	NaN
##	YPL129W	YPL130W	YPL131W	YPL132W	YPL133C	YPL134C
##	NaN	NaN	1.043776385	0.767981628	0.767981628	NaN

##	YPL135W	YPL136W	YPL137C	YPL138C	YPL139C	YPL140C
##	0.611531577	0.710776864	0.611531577	0.710776864	NaN	1.426633024
##	YPL141C	YPL142C	YPL143W	YPL145C	YPL146C	YPL147W
##	NaN	0.643670690	NaN	1.443633914	0.887448614	0.703099281
##	YPL148C	YPL149W	YPL150W	YPL151C	YPL152W	YPL153C
##	0.703099281	2.389905248	2.294028530	2.294028530	NaN	NaN
##	YPL154C	YPL155C	YPL156C	YPL157W	YPL158C	YPL159C
##	1.604417482	NaN	1.135066253	1.196769268	1.196769268	1.524323498
##	YPL160W	YPL161C	YPL162C	YPL163C	YPL164C	YPL165C
##	0.942387470	0.942387470	1.730126145	NaN	NaN	0.501128259
##	YPL166W	YPL167C	YPL168W	YPL169C	YPL170W	YPL171C
##	1.680350505	1.680350505	1.464804954	1.464804954	2.207931337	2.207931337
##	YPL172C	YPL173W	YPL174C	YPL175W	YPL176C	YPL177C
##	1.799541661	2.798327495	2.798327495	0.846103157	0.846103157	2.106732654
##	YPL178W	YPL179W	YPL180W	YPL181W	YPL182C	YPL183C
##	2.202523656	NaN	NaN	1.109706456	NaN	1.109706456
##	YPL184C	YPL185W	YPL186C	YPL187W	YPL188W	YPL189W
##	1.321526358	0.786565537	NaN	0.518994208	0.624753460	NaN
##	YPL190C	YPL191C	YPL192C	YPL193W	YPL194W	YPL195W
##	NaN	1.332035997	NaN	0.463837966	1.908127958	NaN
##	YPL196W	YPL197C	YPL198W	YPL199C	YPL200W	YPL201C
##	NaN	NaN	NaN	NaN	2.961500496	2.961500496
##	YPL202C	YPL203W	YPL204W	YPL205C	YPL206C	YPL207W
##	NaN	1.219229337	0.523690161	1.219229337	0.523690161	0.751262588
##	YPL208W	YPL209C	YPL210C	YPL211W	YPL212C	YPL213W
##	NaN	NaN	1.564629533	0.211365315	0.211365315	0.737013138
##	YPL214C	YPL215W	YPL216W	YPL217C	YPL218W	YPL219W
##	0.737013138	0.656525571	NaN	NaN	NaN	NaN
##	YPL220W	YPL221W	YPL222W	YPL223C	YPL224C	YPL225W
##	1.628175208	1.160476343	2.722521590	2.722521590	1.404259197	NaN
##	YPL226W	YPL227C	YPL228W	YPL229W	YPL230W	YPL231W
##	2.433215282	2.433215282	NaN	1.955889097	NaN	NaN
##	YPL232W	YPL233W	YPL234C	YPL235W	YPL236C	YPL237W
##	NaN	NaN	NaN	1.164658979	1.164658979	1.098641703
##	YPL238C	YPL239W	YPL240C	YPL241C	YPL242C	YPL243W
##	NaN	0.506342347	0.506342347	NaN	1.359168880	0.769582414
##	YPL244C	YPL245W	YPL246C	YPL247C	YPL248C	YPL249C
##	0.769582414	1.339910512	1.339910512	0.766034356	NaN	1.479877205
##	YPL250C	YPL251W	YPL252C	YPL253C	YPL254W	YPL255W
##	1.747929938	NaN	0.539159823	NaN	1.243322272	NaN
##	YPL256C	YPL257W	YPL257W-A	YPL257W-B	YPL258C	YPL259C
##	NaN	NaN	NA	NA	NaN	0.708345159
##	YPL260W	YPL261C	YPL262W	YPL263C	YPL264C	YPL265W
##	1.043342574	NaN	1.008721662	1.008721662	1.064600353	1.526460341
##	YPL266W	YPL267W	YPL268W	YPL269W	YPL270W	YPL271W
##	1.187815922	NaN	1.213113943	2.156091514	0.817920016	2.014297007
##	YPL272C	YPL273W	YPL274W	YPL275W	YPL276W	YPL277C
##	NaN	2.075840989	1.255724812	1.782101017	1.782101017	1.782101017
##	YPL278C	YPL279C	YPL280W	YPL281C	YPL282C	YPL283C
##	1.782101017	0.778728744	NaN	NaN	1.218992656	NaN
##	YPR001W	YPR002C-A	YPR002W	YPR003C	YPR004C	YPR005C
##	NaN	1.117692517	0.902166401	NaN	1.089422758	1.098430890
##	YPR006C	YPR007C	YPR008W	YPR009W	YPR010C	YPR011C
##	0.691975110	0.812212270	NaN	3.114902053	NaN	NaN

##	YPR012W	YPR013C	YPR014C	YPR015C	YPR016C	YPR017C
##	NaN	1.606100182	1.172356890	1.025057240	0.922499022	NaN
##	YPR018W	YPR019W	YPR020W	YPR021C	YPR022C	YPR023C
##	NaN	1.467473621	NaN	1.671601241	0.803965431	1.136368484
##	YPR024W	YPR025C	YPR026W	YPR027C	YPR028W	YPR029C
##	1.136368484	0.855213073	0.855213073	1.320122026	NaN	1.478586960
##	YPR030W	YPR031W	YPR032W	YPR033C	YPR034W	YPR035W
##	1.478586960	2.522031076	1.231638319	1.628581704	1.628581704	1.539087812
##	YPR036W	YPR037C	YPR038W	YPR039W	YPR040W	YPR041W
##	NaN	NaN	1.483971054	1.483971054	1.483971054	NaN
##	YPR042C	YPR043W	YPR044C	YPR045C	YPR046W	YPR047W
##	NaN	NaN	NaN	NaN	NaN	1.291682270
##	YPR048W	YPR049C	YPR050C	YPR051W	YPR052C	YPR053C
##	1.162326762	1.623488967	NaN	1.623488967	NaN	NaN
##	YPR054W	YPR055W	YPR056W	YPR057W	YPR058W	YPR059C
##	NaN	NaN	1.149101912	0.200903719	0.716600591	NaN
##	YPR060C	YPR061C	YPR062W	YPR063C	YPR064W	YPR065W
##	0.690013942	0.418993641	0.418993641	-0.106535791	-0.106535791	0.901901414
##	YPR066W	YPR067W	YPR068C	YPR069C	YPR070W	YPR071W
##	0.802147294	0.906195093	0.824990120	0.963724874	0.963724874	NaN
##	YPR072W	YPR073C	YPR074C	YPR075C	YPR076W	YPR077C
##	NaN	NaN	NaN	NaN	NaN	2.103929010
##	YPR078C	YPR079W	YPR080W	YPR081C	YPR082C	YPR083W
##	2.103929010	2.103929010	NaN	1.855331378	0.972608694	0.972608694
##	YPR084W	YPR085C	YPR086W	YPR087W	YPR088C	YPR089W
##	0.597617837	NaN	NaN	NaN	0.390965523	0.390965523
##	YPR090W	YPR091C	YPR092W	YPR093C	YPR094W	YPR095C
##	0.390965523	0.768915593	0.670767021	0.753255057	0.753255057	1.656176899
##	YPR096C	YPR097W	YPR098C	YPR099C	YPR100W	YPR101W
##	0.775926136	0.775926136	0.529826111	1.623739018	0.529826111	1.623739018
##	YPR102C	YPR103W	YPR104C	YPR105C	YPR106W	YPR107C
##	1.317843329	1.317843329	1.428267356	0.610060849	0.610060849	2.526238449
##	YPR108W	YPR109W	YPR110C	YPR111W	YPR112C	YPR113W
##	2.526238449	NaN	1.026156801	1.026156801	NaN	NaN
##	YPR114W	YPR115W	YPR116W	YPR117W	YPR118W	YPR119W
##	2.101715329	NaN	0.634210371	NaN	0.330940460	NaN
##	YPR120C	YPR121W	YPR122W	YPR123C	YPR124W	YPR125W
##	NaN	0.749230681	1.215802411	0.774739306	0.682182688	0.774739306
##	YPR126C	YPR127W	YPR128C	YPR129W	YPR130C	YPR131C
##	0.929112244	0.929112244	1.034367782	1.034367782	NaN	1.471073651
##	YPR132W	YPR133C	YPR134W	YPR135W	YPR136C	YPR137C-A
##	1.471073651	NaN	1.186181172	NaN	NaN	NA
##	YPR137C-B	YPR137W	YPR138C	YPR139C	YPR140W	YPR141C
##	NA	1.641468407	NaN	1.285240314	1.285240314	0.682224128
##	YPR142C	YPR143W	YPR144C	YPR145W	YPR146C	YPR147C
##	NaN	0.682224128	NaN	NaN	2.611237564	2.611237564
##	YPR148C	YPR149W	YPR150W	YPR151C	YPR152C	YPR153W
##	1.079879417	1.437326579	0.538638495	NaN	2.056276626	2.056276626
##	YPR154W	YPR155C	YPR156C	YPR157W	YPR158C-C	YPR158C-D
##	1.505562738	1.139022715	1.262452411	1.262452411	NA	NA
##	YPR158W	YPR158W-A	YPR158W-B	YPR159W	YPR160W	YPR161C
##	1.236416947	NA	NA	NaN	NaN	NaN
##	YPR162C	YPR163C	YPR164W	YPR165W	YPR166C	YPR167C
##	NaN	1.256251555	1.256251555	NaN	1.957019294	1.097892027



##	YPR168W	YPR169W	YPR170C	YPR171W	YPR172W	YPR173C
##	1.097892027	0.292043742	NaN	NaN	0.500863034	0.898598233
##	YPR174C	YPR175W	YPR176C	YPR177C	YPR178W	YPR179C
##	NaN	NaN	1.062351198	NaN	1.062351198	0.874624266
##	YPR180W	YPR181C	YPR182W	YPR183W	YPR184W	YPR185W
##	0.874624266	NaN	NaN	NaN	NaN	NaN
##	YPR186C	YPR187W	YPR188C	YPR189W	YPR190C	YPR191W
##	1.643654159	1.643654159	NaN	NaN	NaN	NaN
##	YPR192W	YPR193C	YPR194C	YPR195C	YPR196W	YPR197C
##	1.351254568	0.720466530	NaN	NaN	0.951480643	2.047711667
##	YPR198W	YPR199C	YPR200C	YPR201W	YPR202W	YPR203W
##	0.636154172	2.221467701	1.182463904	1.182463904	0.648009324	0.648009324
##	YPR204W	MRH1				
##	NaN	NA				

The shape of the qq-normal plot is indicative of a strong departure from Gaussianity in the distribution of binding scores. Now let's focus on the top five genes:

```
topb = featureNames(harbChIP)[order(exprs(harbChIP)[, "MBP1"], decreasing = TRUE)[1:5]]
```

```
# Map to reference
library(org.Sc.sgd.db)
select(org.Sc.sgd.db,
       keys = topb,
       keytype = "ORF",
       columns = "COMMON")
```

##	ORF	SGD	COMMON
## 1	YDL101C	S000002259	DUN1
## 2	YDL101C	S000002259	serine/threonine protein kinase DUN1
## 3	YPR075C	S000006279	OPY2
## 4	YCR064C	S000000660	<NA>
## 5	YCR065W	S000000661	HCM1
## 6	YGR109C	S000003341	CLB6
## 7	YGR109C	S000003341	B-type cyclin CLB6