snp.id: 1258464 (A/G)

log(ASO.YL)(Y= G)
log(ASO.XL)(X= A )

(1)

log(ASO.YR)(Y= G)
log(ASO.XR)(X= A )

(2)

log(APEX.YL)(Y= G)
log(APEX.XL)(X= A )

(3)

log(APEX.YR)(Y= G)
log(APEX.XR)(X= A )

(4)
snp.id: 1347423 (G/T)

\[
\log(\text{ASO.YL})(Y= T)
\]

\[
\log(\text{ASO.XL})(X= G)
\]

(1)

snp.id: 1347423 (G/T)

\[
\log(\text{ASO.YR})(Y= T)
\]

\[
\log(\text{ASO.XR})(X= G)
\]

(2)

snp.id: 1347423 (G/T)

\[
\log(\text{APEX.YL})(Y= T)
\]

\[
\log(\text{APEX.XL})(X= G)
\]

(3)

snp.id: 1347423 (G/T)

\[
\log(\text{APEX.YR})(Y= T)
\]

\[
\log(\text{APEX.XR})(X= G)
\]

(4)
**snp.id: 1366660 ( A/G )**

1. \( \log(\text{ASO.XL})(X= A) \) vs. \( \log(\text{ASO.YL})(Y= G) \)
2. \( \log(\text{ASO.XR})(X= A) \) vs. \( \log(\text{ASO.YR})(Y= G) \)
3. \( \log(\text{APEX.XL})(X= A) \) vs. \( \log(\text{APEX.YL})(Y= G) \)
4. \( \log(\text{APEX.XR})(X= A) \) vs. \( \log(\text{APEX.YR})(Y= G) \)
snp.id: 1433375 (A/G)

log(ASO.XL)(X= A )

log(ASO.YL)(Y= G )

log(ASO.XR)(X= A )

log(ASO.YR)(Y= G )

log(APEX.XL)(X= A )

log(APEX.YL)(Y= G )

log(APEX.XR)(X= A )

log(APEX.YR)(Y= G )
snp.id: 1486048 (C/T)

(1)

log(ASO.XL)(X= C )

log(ASO.YL)(Y= T )

(2)

log(ASO.XR)(X= C )

log(APEX.YR)(Y= T )

(3)

log(APEX.XL)(X= C )

(4)

log(APEX.XR)(X= C )
snp.id: 1560434 (C/T)

log(ASO.XL)(X = C)

log(ASO.XR)(X = C)

log(APEX.XL)(X = C)

log(APEX.XR)(X = C)
snp.id: 1607185 (C/T)

(1)

log(ASO.XL)(X= C )

log(ASO.YL)(Y= T )

(2)

log(ASO.XR)(X= C )

log(ASO.YR)(Y= T )

(3)

log(APEX.XL)(X= C )

log(APEX.YL)(Y= T )

(4)

log(APEX.XR)(X= C )

log(APEX.YR)(Y= T )
snp.id: 1825443 (C/T)

(1) log(ASO.XL)(X= C) vs log(ASO.YL)(Y= T)

(2) log(ASO.XR)(X= C) vs log(ASO.YR)(Y= T)

(3) log(APEX.XL)(X= C) vs log(APEX.YL)(Y= T)

(4) log(APEX.XR)(X= C) vs log(APEX.YR)(Y= T)
snp.id: 2134180 (A/G)

log(ASO.XL)(X= A )

log(ASO.YL)(Y= G )

●

log(ASO.XR)(X= A )

log(ASO.YR)(Y= G )

●

snp.id: 2134180 (A/G)

log(APEX.XL)(X= A )

log(APEX.YL)(Y= G )

●

log(APEX.XR)(X= A )

log(APEX.YR)(Y= G )

●
snp.id: 2156208 (C/T)

1. \( \log(\text{ASO.XL})(X=C) \) vs. \( \log(\text{ASO.YL})(Y=T) \)

2. \( \log(\text{ASO.XR})(X=C) \) vs. \( \log(\text{ASO.YR})(Y=T) \)

3. \( \log(\text{APEX.XL})(X=C) \) vs. \( \log(\text{APEX.YL})(Y=T) \)

4. \( \log(\text{APEX.XR})(X=C) \) vs. \( \log(\text{APEX.YR})(Y=T) \)
snp.id: 2401810 ( A/G )

\[ \log(ASO.XL) \times (X = A) \]

\[ \log(ASO.YL) \times (Y = G) \]

\[ \log(ASO.XR) \times (X = A) \]

\[ \log(ASO.YR) \times (Y = G) \]

\[ \log(APEX.XL) \times (X = A) \]

\[ \log(APEX.YL) \times (Y = G) \]

\[ \log(APEX.XR) \times (X = A) \]

\[ \log(APEX.YR) \times (Y = G) \]
snp.id: 2760396 (A/G)

log(ASO.XL)(X= A)

log(ASO.YL)(Y= G)

(1)

snp.id: 2760396 (A/G)

log(ASO.XR)(X= A)

log(ASO.YR)(Y= G)

(2)

snp.id: 2760396 (A/G)

log(APEX.XL)(X= A)

log(APEX.YL)(Y= G)

(3)

snp.id: 2760396 (A/G)

log(APEX.XR)(X= A)

log(APEX.YR)(Y= G)

(4)
snp.id: 2803543 (A/G)

log(ASO.YL)(Y= G)

log(ASO.XL)(X= A )

log(ASO.XR)(X= A )

snp.id: 2803543 (A/G)

log(APEX.YL)(Y= G)

log(APEX.XL)(X= A )

log(APEX.XR)(X= A )

snp.id: 2803543 (A/G)
snp.id: 2835896 (C/T)

1. \( \log(\text{ASO.XL}) \) vs \( \log(\text{ASO.YL}) \)
   - X = C
   - Y = T

2. \( \log(\text{ASO.XR}) \) vs \( \log(\text{ASO.YR}) \)
   - X = C
   - Y = T

3. \( \log(\text{APEX.XL}) \) vs \( \log(\text{APEX.YL}) \)
   - X = C
   - Y = T

4. \( \log(\text{APEX.XR}) \) vs \( \log(\text{APEX.YR}) \)
   - X = C
   - Y = T
snp.id: 2901585 ( A/G )

(1) log(ASO.XL)(X= A ) log(ASO.YL)(Y= G )

(2) log(ASO.XR)(X= A ) log(ASO.YR)(Y= G )

(3) log(APEX.XL)(X= A ) log(APEX.YL)(Y= G )

(4) log(APEX.XR)(X= A ) log(APEX.YR)(Y= G )
snp.id: 2925067 ( A/G )

log(ASO.YL)(Y= G )

log(ASO.XL)(X= A )

(1)

log(ASO.XR)(X= A )

snp.id: 2925067 ( A/G )

log(APEX.YL)(Y= G )

log(APEX.XL)(X= A )

(3)

log(APEX.XR)(X= A )

snp.id: 2925067 ( A/G )

log(APEX.YR)(Y= G )

log(APEX.XR)(X= A )

(4)
snp.id: 2938675 ( G/T )

1. log(ASO.YL)(Y= T) vs log(ASO.XL)(X= G)
2. log(ASO.YR)(Y= T) vs log(ASO.XR)(X= G)
3. log(APEX.YL)(Y= T) vs log(APEX.XL)(X= G)
4. log(APEX.YR)(Y= T) vs log(APEX.XR)(X= G)
snp.id: 318841 (C/G)

(1) log(ASO.XL)(X= C) vs. log(ASO.YL)(Y= G)

(2) log(ASO.XR)(X= C) vs. log(ASO.YR)(Y= G)

(3) log(APEX.XL)(X= C) vs. log(APEX.YL)(Y= G)

(4) log(APEX.XR)(X= C) vs. log(APEX.YR)(Y= G)
snp.id: 3776720 (C/T)

log(ASO.XL)(X= C )

log(ASO.YL)(Y= T )

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NA18502

snp.id: 3776720 (C/T)

log(ASO.XR)(X= C )

log(APEX.YL)(Y= T )

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NA18502

snp.id: 3776720 (C/T)

log(APEX.XL)(X= C )

log(APEX.YR)(Y= T )

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NA18502

snp.id: 3776720 (C/T)

log(APEX.XR)(X= C )

log(APEX.YR)(Y= T )

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NA18502
snp.id: 3899706 (C/G)

(1) 
\[ \log(\text{ASO.XL})(X = C) \]
\[ \log(\text{ASO.YL})(Y = G) \]

(2) 
\[ \log(\text{ASO.XR})(X = C) \]
\[ \log(\text{ASO.YR})(Y = G) \]

(3) 
\[ \log(\text{APEX.XL})(X = C) \]
\[ \log(\text{APEX.YL})(Y = G) \]

(4) 
\[ \log(\text{APEX.XR})(X = C) \]
\[ \log(\text{APEX.YR})(Y = G) \]
snp.id: 4873622 (C/G)

- **(1)**
  - $\log(\text{ASO.XL})(X=\text{C})$
  - $\log(\text{ASO.YL})(Y=\text{G})$

- **(2)**
  - $\log(\text{ASO.XR})(X=\text{C})$
  - $\log(\text{ASO.YR})(Y=\text{G})$

- **(3)**
  - $\log(\text{APEX.XL})(X=\text{C})$
  - $\log(\text{APEX.YL})(Y=\text{G})$

- **(4)**
  - $\log(\text{APEX.XR})(X=\text{C})$
  - $\log(\text{APEX.YR})(Y=\text{G})$
snp.id: 4933826 ( C/G )

(1) log(ASO.XL)(X= C ) log(ASO.YL)(Y= G )

(2) log(ASO.XR)(X= C ) log(ASO.YR)(Y= G )

(3) log(APEX.XL)(X= C ) log(APEX.YL)(Y= G )

(4) log(APEX.XR)(X= C ) log(APEX.YR)(Y= G )
snp.id: 6478813 ( A/T )

\[
\begin{align*}
\log(\text{ASO.XR})(X= A) & \quad \log(\text{ASO.YL})(Y= T) \\
\log(\text{ASO.YR})(Y= T) & \quad \log(\text{ASO.XR})(X= A) \\
\log(\text{APEX.XL})(X= A) & \quad \log(\text{APEX.YL})(Y= T) \\
\log(\text{APEX.YR})(Y= T) & \quad \log(\text{APEX.XR})(X= A)
\end{align*}
\]
snp.id: 667415 (A/G)

\[
\begin{align*}
\log(\text{ASO.YL})(Y=G) \\
\log(\text{ASO.XL})(X=A) \\
\log(\text{ASO.YR})(Y=G) \\
\log(\text{ASO.XR})(X=A)
\end{align*}
\]
snp.id: 7292634 (C/T)

log(ASO.XL)(X=C)

log(ASO.YL)(Y=T)

log(ASO.XR)(X=C)

log(ASO.YR)(Y=T)

snp.id: 7292634 (C/T)

log(APEX.XL)(X=C)

log(APEX.YL)(Y=T)

log(APEX.XR)(X=C)

log(APEX.YR)(Y=T)
snp.id: 7693776 (C/T)

1. \( \log(\text{ASO.YL})(Y=T) \) vs \( \log(\text{ASO.XL})(X=C) \)
2. \( \log(\text{ASO.YR})(Y=T) \) vs \( \log(\text{ASO.XR})(X=C) \)
3. \( \log(\text{APEX.YL})(Y=T) \) vs \( \log(\text{APEX.XL})(X=C) \)
4. \( \log(\text{APEX.YR})(Y=T) \) vs \( \log(\text{APEX.XR})(X=C) \)
snp.id: 7855283 (A/G)

(1) log(ASO.YL)(Y= G) - log(ASO.XL)(X= A)

(2) log(ASO.YR)(Y= G) - log(ASO.XR)(X= A)

(3) log(APEX.YL)(Y= G) - log(APEX.XL)(X= A)

(4) log(APEX.YR)(Y= G) - log(APEX.XR)(X= A)
snp.id: 803422 (C/T)

(1) log(ASO.XL)(X= C ) log(ASO.YL)(Y= T )

(2) log(ASO.XR)(X= C ) log(ASO.YR)(Y= T )

(3) log(APEX.XL)(X= C ) log(APEX.YL)(Y= T )

(4) log(APEX.XR)(X= C ) log(APEX.YR)(Y= T )
snp.id: 8096868 (C/T)

log(ASO.YL)(Y = T) vs log(ASO.XL)(X = C)

(1)

log(ASO.YR)(Y = T) vs log(ASO.XR)(X = C)

(2)

log(APEX.YL)(Y = T) vs log(APEX.XL)(X = C)

(3)

log(APEX.YR)(Y = T) vs log(APEX.XR)(X = C)

(4)