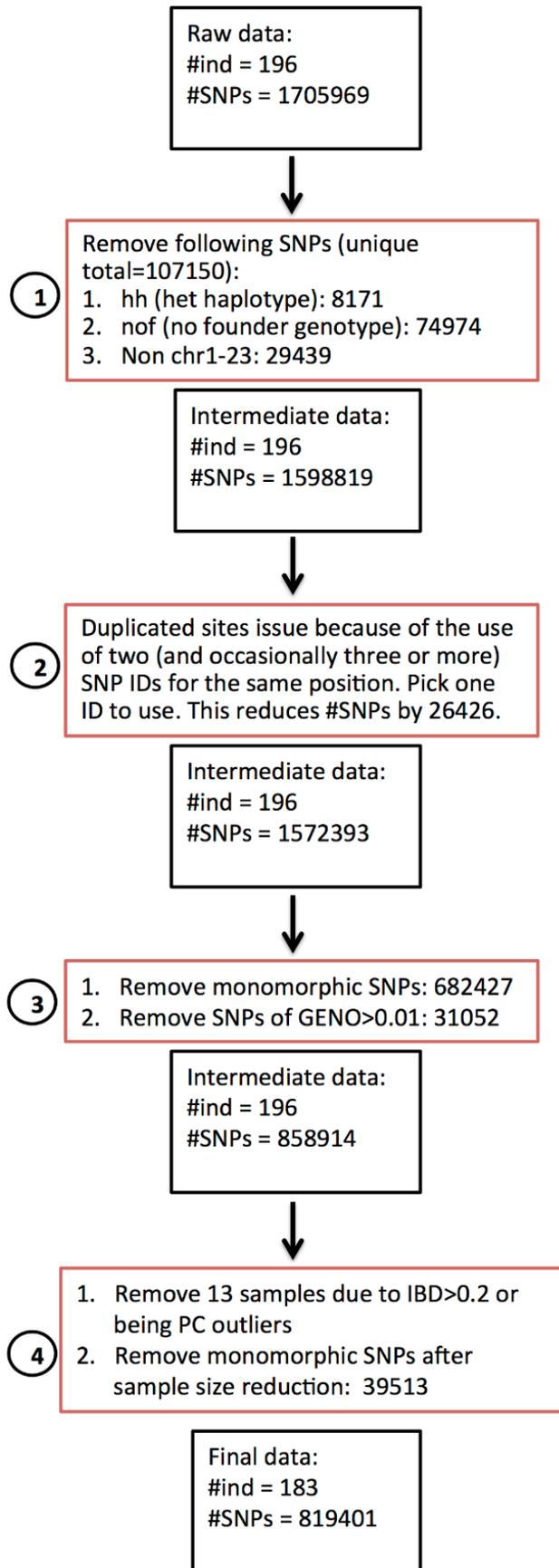


Supplemental Digital Content 1



Supplemental Digital Content 2

| Year | Country | Population | GDP | Human Development Index | Life Expectancy | Healthcare Expenditure | Government Expenditure | Private Expenditure |
|------|---------|------------|----------------|-------------------------|-----------------|------------------------|------------------------|---------------------|
| 2000 | Algeria | 29,558,000 | 12,250,000,000 | 0.640 | 75.1 | 2.2 | 2.2 | 2.2 |
| 2001 | Algeria | 29,760,000 | 12,500,000,000 | 0.645 | 75.2 | 2.2 | 2.2 | 2.2 |
| 2002 | Algeria | 29,962,000 | 12,750,000,000 | 0.650 | 75.3 | 2.2 | 2.2 | 2.2 |
| 2003 | Algeria | 30,164,000 | 13,000,000,000 | 0.655 | 75.4 | 2.2 | 2.2 | 2.2 |
| 2004 | Algeria | 30,366,000 | 13,250,000,000 | 0.660 | 75.5 | 2.2 | 2.2 | 2.2 |
| 2005 | Algeria | 30,568,000 | 13,500,000,000 | 0.665 | 75.6 | 2.2 | 2.2 | 2.2 |
| 2006 | Algeria | 30,770,000 | 13,750,000,000 | 0.670 | 75.7 | 2.2 | 2.2 | 2.2 |
| 2007 | Algeria | 30,972,000 | 14,000,000,000 | 0.675 | 75.8 | 2.2 | 2.2 | 2.2 |
| 2008 | Algeria | 31,174,000 | 14,250,000,000 | 0.680 | 75.9 | 2.2 | 2.2 | 2.2 |
| 2009 | Algeria | 31,376,000 | 14,500,000,000 | 0.685 | 76.0 | 2.2 | 2.2 | 2.2 |
| 2010 | Algeria | 31,578,000 | 14,750,000,000 | 0.690 | 76.1 | 2.2 | 2.2 | 2.2 |
| 2011 | Algeria | 31,780,000 | 15,000,000,000 | 0.695 | 76.2 | 2.2 | 2.2 | 2.2 |
| 2012 | Algeria | 31,982,000 | 15,250,000,000 | 0.700 | 76.3 | 2.2 | 2.2 | 2.2 |
| 2013 | Algeria | 32,184,000 | 15,500,000,000 | 0.705 | 76.4 | 2.2 | 2.2 | 2.2 |
| 2014 | Algeria | 32,386,000 | 15,750,000,000 | 0.710 | 76.5 | 2.2 | 2.2 | 2.2 |
| 2015 | Algeria | 32,588,000 | 16,000,000,000 | 0.715 | 76.6 | 2.2 | 2.2 | 2.2 |
| 2016 | Algeria | 32,790,000 | 16,250,000,000 | 0.720 | 76.7 | 2.2 | 2.2 | 2.2 |
| 2017 | Algeria | 32,992,000 | 16,500,000,000 | 0.725 | 76.8 | 2.2 | 2.2 | 2.2 |
| 2018 | Algeria | 33,194,000 | 16,750,000,000 | 0.730 | 76.9 | 2.2 | 2.2 | 2.2 |
| 2019 | Algeria | 33,396,000 | 17,000,000,000 | 0.735 | 77.0 | 2.2 | 2.2 | 2.2 |
| 2000 | Algeria | 29,558,000 | 12,250,000,000 | 0.640 | 75.1 | 2.2 | 2.2 | 2.2 |
| 2001 | Algeria | 29,760,000 | 12,500,000,000 | 0.645 | 75.2 | 2.2 | 2.2 | 2.2 |
| 2002 | Algeria | 29,962,000 | 12,750,000,000 | 0.650 | 75.3 | 2.2 | 2.2 | 2.2 |
| 2003 | Algeria | 30,164,000 | 13,000,000,000 | 0.655 | 75.4 | 2.2 | 2.2 | 2.2 |
| 2004 | Algeria | 30,366,000 | 13,250,000,000 | 0.660 | 75.5 | 2.2 | 2.2 | 2.2 |
| 2005 | Algeria | 30,568,000 | 13,500,000,000 | 0.665 | 75.6 | 2.2 | 2.2 | 2.2 |
| 2006 | Algeria | 30,770,000 | 13,750,000,000 | 0.670 | 75.7 | 2.2 | 2.2 | 2.2 |
| 2007 | Algeria | 30,972,000 | 14,000,000,000 | 0.675 | 75.8 | 2.2 | 2.2 | 2.2 |
| 2008 | Algeria | 31,174,000 | 14,250,000,000 | 0.680 | 75.9 | 2.2 | 2.2 | 2.2 |
| 2009 | Algeria | 31,376,000 | 14,500,000,000 | 0.685 | 76.0 | 2.2 | 2.2 | 2.2 |
| 2010 | Algeria | 31,578,000 | 14,750,000,000 | 0.690 | 76.1 | 2.2 | 2.2 | 2.2 |
| 2011 | Algeria | 31,780,000 | 15,000,000,000 | 0.695 | 76.2 | 2.2 | 2.2 | 2.2 |
| 2012 | Algeria | 31,982,000 | 15,250,000,000 | 0.700 | 76.3 | 2.2 | 2.2 | 2.2 |
| 2013 | Algeria | 32,184,000 | 15,500,000,000 | 0.705 | 76.4 | 2.2 | 2.2 | 2.2 |
| 2014 | Algeria | 32,386,000 | 15,750,000,000 | 0.710 | 76.5 | 2.2 | 2.2 | 2.2 |
| 2015 | Algeria | 32,588,000 | 16,000,000,000 | 0.715 | 76.6 | 2.2 | 2.2 | 2.2 |
| 2016 | Algeria | 32,790,000 | 16,250,000,000 | 0.720 | 76.7 | 2.2 | 2.2 | 2.2 |
| 2017 | Algeria | 32,992,000 | 16,500,000,000 | 0.725 | 76.8 | 2.2 | 2.2 | 2.2 |
| 2018 | Algeria | 33,194,000 | 16,750,000,000 | 0.730 | 76.9 | 2.2 | 2.2 | 2.2 |
| 2019 | Algeria | 33,396,000 | 17,000,000,000 | 0.735 | 77.0 | 2.2 | 2.2 | 2.2 |
| 2000 | Algeria | 29,558,000 | 12,250,000,000 | 0.640 | 75.1 | 2.2 | 2.2 | 2.2 |
| 2001 | Algeria | 29,760,000 | 12,500,000,000 | 0.645 | 75.2 | 2.2 | 2.2 | 2.2 |
| 2002 | Algeria | 29,962,000 | 12,750,000,000 | 0.650 | 75.3 | 2.2 | 2.2 | 2.2 |
| 2003 | Algeria | 30,164,000 | 13,000,000,000 | 0.655 | 75.4 | 2.2 | 2.2 | 2.2 |
| 2004 | Algeria | 30,366,000 | 13,250,000,000 | 0.660 | 75.5 | 2.2 | 2.2 | 2.2 |
| 2005 | Algeria | 30,568,000 | 13,500,000,000 | 0.665 | 75.6 | 2.2 | 2.2 | 2.2 |
| 2006 | Algeria | 30,770,000 | 13,750,000,000 | 0.670 | 75.7 | 2.2 | 2.2 | 2.2 |
| 2007 | Algeria | 30,972,000 | 14,000,000,000 | 0.675 | 75.8 | 2.2 | 2.2 | 2.2 |
| 2008 | Algeria | 31,174,000 | 14,250,000,000 | 0.680 | 75.9 | 2.2 | 2.2 | 2.2 |
| 2009 | Algeria | 31,376,000 | 14,500,000,000 | 0.685 | 76.0 | 2.2 | 2.2 | 2.2 |
| 2010 | Algeria | 31,578,000 | 14,750,000,000 | 0.690 | 76.1 | 2.2 | 2.2 | 2.2 |
| 2011 | Algeria | 31,780,000 | 15,000,000,000 | 0.695 | 76.2 | 2.2 | 2.2 | 2.2 |
| 2012 | Algeria | 31,982,000 | 15,250,000,000 | 0.700 | 76.3 | 2.2 | 2.2 | 2.2 |
| 2013 | Algeria | 32,184,000 | 15,500,000,000 | 0.705 | 76.4 | 2.2 | 2.2 | 2.2 |
| 2014 | Algeria | 32,386,000 | 15,750,000,000 | 0.710 | 76.5 | 2.2 | 2.2 | 2.2 |
| 2015 | Algeria | 32,588,000 | 16,000,000,000 | 0.715 | 76.6 | 2.2 | 2.2 | 2.2 |
| 2016 | Algeria | 32,790,000 | 16,250,000,000 | 0.720 | 76.7 | 2.2 | 2.2 | 2.2 |
| 2017 | Algeria | 32,992,000 | 16,500,000,000 | 0.725 | 76.8 | 2.2 | 2.2 | 2.2 |
| 2018 | Algeria | 33,194,000 | 16,750,000,000 | 0.730 | 76.9 | 2.2 | 2.2 | 2.2 |
| 2019 | Algeria | 33,396,000 | 17,000,000,000 | 0.735 | 77.0 | 2.2 | 2.2 | 2.2 |

| Year | Country | Population (millions) | Life expectancy at birth (years) | Infant mortality rate (per 1,000 live births) | Under-five mortality rate (per 1,000 live births) | Maternal mortality ratio (per 100,000 live births) | Sex ratio at birth (per 100 females) | Crude death rate (per 1,000 population) | Crude birth rate (per 1,000 population) | Total fertility rate (per woman) | Age-standardized mortality rate (per 100,000 population) | Age-standardized morbidity rate (per 100,000 population) | Age-standardized DALY rate (per 100,000 population) |
|------|---------|-----------------------|----------------------------------|---|---|--|--------------------------------------|---|---|----------------------------------|--|--|---|
| 2000 | Algeria | 31.0 | 75.0 | 10.0 | 15.0 | 10.0 | 105.0 | 10.0 | 15.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2001 | Algeria | 31.1 | 75.1 | 9.8 | 14.8 | 9.8 | 105.0 | 9.8 | 14.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2002 | Algeria | 31.2 | 75.2 | 9.6 | 14.6 | 9.6 | 105.0 | 9.6 | 14.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2003 | Algeria | 31.3 | 75.3 | 9.4 | 14.4 | 9.4 | 105.0 | 9.4 | 14.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2004 | Algeria | 31.4 | 75.4 | 9.2 | 14.2 | 9.2 | 105.0 | 9.2 | 14.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2005 | Algeria | 31.5 | 75.5 | 9.0 | 14.0 | 9.0 | 105.0 | 9.0 | 14.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2006 | Algeria | 31.6 | 75.6 | 8.8 | 13.8 | 8.8 | 105.0 | 8.8 | 13.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2007 | Algeria | 31.7 | 75.7 | 8.6 | 13.6 | 8.6 | 105.0 | 8.6 | 13.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2008 | Algeria | 31.8 | 75.8 | 8.4 | 13.4 | 8.4 | 105.0 | 8.4 | 13.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2009 | Algeria | 31.9 | 75.9 | 8.2 | 13.2 | 8.2 | 105.0 | 8.2 | 13.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2010 | Algeria | 32.0 | 76.0 | 8.0 | 13.0 | 8.0 | 105.0 | 8.0 | 13.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2011 | Algeria | 32.1 | 76.1 | 7.8 | 12.8 | 7.8 | 105.0 | 7.8 | 12.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2012 | Algeria | 32.2 | 76.2 | 7.6 | 12.6 | 7.6 | 105.0 | 7.6 | 12.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2013 | Algeria | 32.3 | 76.3 | 7.4 | 12.4 | 7.4 | 105.0 | 7.4 | 12.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2014 | Algeria | 32.4 | 76.4 | 7.2 | 12.2 | 7.2 | 105.0 | 7.2 | 12.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2015 | Algeria | 32.5 | 76.5 | 7.0 | 12.0 | 7.0 | 105.0 | 7.0 | 12.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2016 | Algeria | 32.6 | 76.6 | 6.8 | 11.8 | 6.8 | 105.0 | 6.8 | 11.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2017 | Algeria | 32.7 | 76.7 | 6.6 | 11.6 | 6.6 | 105.0 | 6.6 | 11.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2018 | Algeria | 32.8 | 76.8 | 6.4 | 11.4 | 6.4 | 105.0 | 6.4 | 11.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2019 | Algeria | 32.9 | 76.9 | 6.2 | 11.2 | 6.2 | 105.0 | 6.2 | 11.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2020 | Algeria | 33.0 | 77.0 | 6.0 | 11.0 | 6.0 | 105.0 | 6.0 | 11.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2000 | Algeria | 31.0 | 75.0 | 10.0 | 15.0 | 10.0 | 105.0 | 10.0 | 15.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2001 | Algeria | 31.1 | 75.1 | 9.8 | 14.8 | 9.8 | 105.0 | 9.8 | 14.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2002 | Algeria | 31.2 | 75.2 | 9.6 | 14.6 | 9.6 | 105.0 | 9.6 | 14.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2003 | Algeria | 31.3 | 75.3 | 9.4 | 14.4 | 9.4 | 105.0 | 9.4 | 14.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2004 | Algeria | 31.4 | 75.4 | 9.2 | 14.2 | 9.2 | 105.0 | 9.2 | 14.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2005 | Algeria | 31.5 | 75.5 | 9.0 | 14.0 | 9.0 | 105.0 | 9.0 | 14.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2006 | Algeria | 31.6 | 75.6 | 8.8 | 13.8 | 8.8 | 105.0 | 8.8 | 13.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2007 | Algeria | 31.7 | 75.7 | 8.6 | 13.6 | 8.6 | 105.0 | 8.6 | 13.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2008 | Algeria | 31.8 | 75.8 | 8.4 | 13.4 | 8.4 | 105.0 | 8.4 | 13.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2009 | Algeria | 31.9 | 75.9 | 8.2 | 13.2 | 8.2 | 105.0 | 8.2 | 13.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2010 | Algeria | 32.0 | 76.0 | 8.0 | 13.0 | 8.0 | 105.0 | 8.0 | 13.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2011 | Algeria | 32.1 | 76.1 | 7.8 | 12.8 | 7.8 | 105.0 | 7.8 | 12.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2012 | Algeria | 32.2 | 76.2 | 7.6 | 12.6 | 7.6 | 105.0 | 7.6 | 12.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2013 | Algeria | 32.3 | 76.3 | 7.4 | 12.4 | 7.4 | 105.0 | 7.4 | 12.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2014 | Algeria | 32.4 | 76.4 | 7.2 | 12.2 | 7.2 | 105.0 | 7.2 | 12.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2015 | Algeria | 32.5 | 76.5 | 7.0 | 12.0 | 7.0 | 105.0 | 7.0 | 12.0 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2016 | Algeria | 32.6 | 76.6 | 6.8 | 11.8 | 6.8 | 105.0 | 6.8 | 11.8 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2017 | Algeria | 32.7 | 76.7 | 6.6 | 11.6 | 6.6 | 105.0 | 6.6 | 11.6 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2018 | Algeria | 32.8 | 76.8 | 6.4 | 11.4 | 6.4 | 105.0 | 6.4 | 11.4 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2019 | Algeria | 32.9 | 76.9 | 6.2 | 11.2 | 6.2 | 105.0 | 6.2 | 11.2 | 1.5 | 100.0 | 100.0 | 100.0 |
| 2020 | Algeria | 33.0 | 77.0 | 6.0 | 11.0 | 6.0 | 105.0 | 6.0 | 11.0 | 1.5 | 100.0 | 100.0 | 100.0 |

Supplemental Digital Content 3

Supplemental Digital Content 4

Supplemental Digital Content 4b

| Data from the GWAS Catalog and SNAP Proxy Tool | | | | | Alcoholic Hepatitis GWAS Data for Proxies | | | | | |
|--|------------|---|----------|-----------------------|---|--------|--------|----------|-------|-------------|
| Genome-Wide Significant SNP | Proxy | Nucleotide Distance between SNP and Proxy | RSquared | HG19 Genomic Position | Probe ID | F A | F U | P | OR | MAF MEGA |
| rs2294915 | rs2294915 | 0 | 1 | chr22:44340904 | 22:44340904-C-T | 0.3611 | 0.2312 | 8.24E-03 | 1.88 | 0.295085246 |
| rs3747207 | rs2294915 | 16049 | 0.913 | chr22:44340904 | 22:44340904-C-T | 0.3611 | 0.2312 | 8.24E-03 | 1.88 | 0.295085246 |
| rs738408 | rs2294915 | 16174 | 0.869 | chr22:44340904 | 22:44340904-C-T | 0.3611 | 0.2312 | 8.24E-03 | 1.88 | 0.295085246 |
| rs738409 | rs2294915 | 16177 | 0.913 | chr22:44340904 | 22:44340904-C-T | 0.3611 | 0.2312 | 8.24E-03 | 1.88 | 0.295085246 |
| rs2294922 | rs2294915 | 38661 | 0.83 | chr22:44340904 | 22:44340904-C-T | 0.3611 | 0.2312 | 8.24E-03 | 1.88 | 0.295085246 |
| rs3747207 | rs3747207 | 0 | 1 | chr22:44324855 | 22:44324855-G-A | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs738409 | rs738409 | 0 | 1 | chr22:44324727 | exm1615904 | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs738408 | rs738409 | 3 | 0.955 | chr22:44324727 | exm1615904 | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs738408 | rs3747207 | 125 | 0.955 | chr22:44324855 | 22:44324855-G-A | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs3747207 | rs738409 | 128 | 1 | chr22:44324727 | exm1615904 | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs738409 | rs3747207 | 128 | 1 | chr22:44324855 | 22:44324855-G-A | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs2294915 | rs3747207 | 16049 | 0.913 | chr22:44324855 | 22:44324855-G-A | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs2294915 | rs738409 | 16177 | 0.913 | chr22:44324727 | exm1615904 | 0.3389 | 0.2151 | 9.95E-03 | 1.871 | 0.275985246 |
| rs2281137 | rs2281137 | 0 | 1 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2281138 | rs2281137 | 16 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2281135 | rs2281137 | 77 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2072907 | rs2281137 | 160 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs34879941 | rs2281137 | 385 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs1883349 | rs2281137 | 550 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs1883348 | rs2281137 | 678 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2072906 | rs2281137 | 679 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs13056638 | rs2281137 | 715 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2076207 | rs2281137 | 877 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs1997693 | rs2281137 | 980 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2072905 | rs2281137 | 986 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2896019 | rs2281137 | 1201 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2401512 | rs2281137 | 1452 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2896020 | rs2281137 | 1475 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs4823176 | rs2281137 | 1983 | 0.836 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs4823177 | rs2281137 | 1993 | 0.836 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs4823178 | rs2281137 | 2036 | 0.836 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs16991175 | rs2281137 | 2838 | 0.836 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs35621602 | rs2281137 | 2913 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs34352134 | rs2281137 | 2923 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2073081 | rs2281137 | 3251 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs1010023 | rs2281137 | 3605 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs1010022 | rs2281137 | 3817 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs73176497 | rs2281137 | 4464 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs926633 | rs2281137 | 5040 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs13056555 | rs2281137 | 7033 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs36069781 | rs2281137 | 7593 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs4823179 | rs2281137 | 8700 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs4823180 | rs2281137 | 8805 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs4823181 | rs2281137 | 9113 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs13055900 | rs2281137 | 9173 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs13055874 | rs2281137 | 9179 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2008451 | rs2281137 | 10476 | 0.895 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs2092501 | rs2281137 | 14758 | 0.836 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs34912062 | rs2281137 | 15953 | 0.836 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs1474745 | rs2281137 | 16743 | 0.836 | chr22:44332493 | 22:44332493-T-C | 0.2556 | 0.1559 | 2.00E-02 | 1.858 | 0.204932787 |
| rs13056638 | rs13056638 | 0 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1997693 | rs1997693 | 0 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072907 | rs2072907 | 0 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076207 | rs2076207 | 0 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281138 | rs2281138 | 0 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281137 | rs2281138 | 16 | 0.895 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883348 | rs13056638 | 37 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281135 | rs2072907 | 83 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281138 | rs2281138 | 93 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072905 | rs2076207 | 109 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281137 | rs2072907 | 160 | 0.895 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883349 | rs13056638 | 165 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072907 | rs2281138 | 176 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281138 | rs2072907 | 176 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072906 | rs2076207 | 198 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34879941 | rs2072907 | 225 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056638 | rs1997693 | 265 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1997693 | rs13056638 | 265 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883348 | rs1997693 | 302 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896019 | rs2076207 | 324 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34879941 | rs2281138 | 401 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883349 | rs1997693 | 430 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34879941 | rs2076207 | 492 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072906 | rs2072907 | 519 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883349 | rs2281138 | 534 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2401512 | rs2076207 | 575 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896020 | rs2076207 | 598 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883348 | rs2281138 | 662 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072906 | rs2281138 | 695 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056638 | rs2281138 | 699 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281138 | rs13056638 | 699 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883349 | rs2072907 | 710 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2281137 | rs13056638 | 715 | 0.895 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072907 | rs2076207 | 717 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076207 | rs2072907 | 717 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | | |

| | | | | | | | | | | |
|------------|------------|------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs4823176 | rs2076207 | 1106 | 0.947 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823177 | rs2076207 | 1116 | 0.947 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1997693 | rs2072907 | 1140 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072907 | rs1997693 | 1140 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823178 | rs2076207 | 1159 | 0.947 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896019 | rs2281138 | 1217 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2401512 | rs2072907 | 1292 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896020 | rs2072907 | 1315 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34879941 | rs1997693 | 1365 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1977081 | rs1997693 | 1385 | 0.843 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072906 | rs13056638 | 1394 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883349 | rs2076207 | 1427 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2401512 | rs2281138 | 1468 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896020 | rs2281138 | 1491 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1883348 | rs2076207 | 1555 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056638 | rs2076207 | 1592 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076207 | rs13056638 | 1592 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1977081 | rs13056638 | 1650 | 0.843 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072906 | rs1997693 | 1659 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072905 | rs13056638 | 1701 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823176 | rs2072907 | 1823 | 0.947 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823177 | rs2072907 | 1833 | 0.947 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1997693 | rs2076207 | 1857 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076207 | rs1997693 | 1857 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823178 | rs2072907 | 1876 | 0.947 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896019 | rs13056638 | 1916 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs16991175 | rs2076207 | 1961 | 0.947 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2072905 | rs1997693 | 1966 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823176 | rs2281138 | 1999 | 0.947 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823177 | rs2281138 | 2009 | 0.947 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs35621602 | rs2076207 | 2036 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34352134 | rs2076207 | 2046 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823178 | rs2281138 | 2052 | 0.947 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2401512 | rs13056638 | 2167 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896019 | rs1997693 | 2181 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896020 | rs13056638 | 2190 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294433 | rs1997693 | 2238 | 0.843 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1977081 | rs2281138 | 2349 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2073081 | rs2076207 | 2374 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2401512 | rs1997693 | 2432 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076211 | rs1997693 | 2435 | 0.843 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2896020 | rs1997693 | 2455 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294433 | rs13056638 | 2503 | 0.843 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1977081 | rs2072907 | 2525 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs16991175 | rs2072907 | 2678 | 0.947 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823176 | rs13056638 | 2698 | 0.947 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076211 | rs13056638 | 2700 | 0.843 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823177 | rs13056638 | 2708 | 0.947 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1010023 | rs2076207 | 2728 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823178 | rs13056638 | 2751 | 0.947 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs35621602 | rs2072907 | 2753 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34352134 | rs2072907 | 2763 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823173 | rs1997693 | 2783 | 0.843 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs16991175 | rs2281138 | 2854 | 0.947 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs35621602 | rs2281138 | 2929 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34352134 | rs2281138 | 2939 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1010022 | rs2076207 | 2940 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823176 | rs1997693 | 2963 | 0.947 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823177 | rs1997693 | 2973 | 0.947 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823178 | rs1997693 | 3016 | 0.947 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823173 | rs13056638 | 3048 | 0.843 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2073081 | rs2072907 | 3091 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294433 | rs2281138 | 3202 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1977081 | rs2076207 | 3242 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2073081 | rs2281138 | 3267 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294433 | rs2072907 | 3378 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076211 | rs2281138 | 3399 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1010023 | rs2072907 | 3445 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs16991175 | rs13056638 | 3553 | 0.947 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2076211 | rs2072907 | 3575 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs73176497 | rs2076207 | 3587 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1010023 | rs2281138 | 3621 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs35621602 | rs13056638 | 3628 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34352134 | rs13056638 | 3638 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1010022 | rs2072907 | 3657 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823173 | rs2281138 | 3747 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs16991175 | rs1997693 | 3818 | 0.947 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1010022 | rs2281138 | 3833 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs35621602 | rs1997693 | 3893 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34352134 | rs1997693 | 3903 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823173 | rs2072907 | 3923 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2073081 | rs13056638 | 3966 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294433 | rs2076207 | 4095 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs926633 | rs2076207 | 4163 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2073081 | rs1997693 | 4231 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs12484700 | rs1997693 | 4240 | 0.843 | chr22:44331513 | 22:44331513-C-G | 0.2611 | | | | |

| | | | | | | | | | | |
|------------|------------|-------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs36055245 | rs2072907 | 5461 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs9625962 | rs13056638 | 5506 | 0.843 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs12483959 | rs1997693 | 5517 | 0.843 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs926633 | rs13056638 | 5755 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs11090617 | rs2281138 | 5777 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs12483959 | rs13056638 | 5782 | 0.843 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs11090617 | rs2072907 | 5953 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs926633 | rs1997693 | 6020 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs12484700 | rs2076207 | 6097 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056555 | rs2076207 | 6156 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs36055245 | rs2076207 | 6178 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs9625962 | rs2281138 | 6205 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs9625962 | rs2072907 | 6381 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs12483959 | rs2281138 | 6481 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs12483959 | rs2072907 | 6657 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs11090617 | rs2076207 | 6670 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs36069781 | rs2076207 | 6716 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056555 | rs2072907 | 6873 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056555 | rs2281138 | 7049 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs9625962 | rs2076207 | 7098 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs12483959 | rs2076207 | 7374 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs36069781 | rs2072907 | 7433 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294916 | rs2076207 | 7552 | 0.843 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs36069781 | rs2281138 | 7609 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056555 | rs13056638 | 7748 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823179 | rs2076207 | 7823 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823180 | rs2076207 | 7928 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13056555 | rs1997693 | 8013 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823181 | rs2076207 | 8236 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294916 | rs2072907 | 8269 | 0.843 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055900 | rs2076207 | 8296 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055874 | rs2076207 | 8302 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs36069781 | rs13056638 | 8308 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294916 | rs2281138 | 8445 | 0.843 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823179 | rs2072907 | 8540 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs36069781 | rs1997693 | 8573 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823180 | rs2072907 | 8645 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823179 | rs2281138 | 8716 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823180 | rs2281138 | 8821 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823181 | rs2072907 | 8953 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055900 | rs2072907 | 9013 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055874 | rs2072907 | 9019 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823181 | rs2281138 | 9129 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294916 | rs13056638 | 9144 | 0.843 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055900 | rs2281138 | 9189 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055874 | rs2281138 | 9195 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294916 | rs1997693 | 9409 | 0.843 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823179 | rs13056638 | 9415 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823180 | rs13056638 | 9520 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2008451 | rs2076207 | 9599 | 1 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823179 | rs1997693 | 9680 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823180 | rs1997693 | 9785 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823181 | rs13056638 | 9828 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055900 | rs13056638 | 9888 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055874 | rs13056638 | 9894 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs4823181 | rs1997693 | 10093 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055900 | rs1997693 | 10153 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs13055874 | rs1997693 | 10159 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2008451 | rs2072907 | 10316 | 1 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2008451 | rs2281138 | 10492 | 1 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2008451 | rs13056638 | 11191 | 1 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2008451 | rs1997693 | 11456 | 1 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2092501 | rs2076207 | 13881 | 0.947 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2092501 | rs2072907 | 14598 | 0.947 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2092501 | rs2281138 | 14774 | 0.947 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34912062 | rs2076207 | 15076 | 0.947 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2092501 | rs13056638 | 15473 | 0.947 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2092501 | rs1997693 | 15738 | 0.947 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34912062 | rs2072907 | 15793 | 0.947 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1474745 | rs2076207 | 15866 | 0.947 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34912062 | rs2281138 | 15969 | 0.947 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1474745 | rs2072907 | 16583 | 0.947 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34912062 | rs13056638 | 16668 | 0.947 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1474745 | rs2281138 | 16759 | 0.947 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs34912062 | rs1997693 | 16933 | 0.947 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1474745 | rs13056638 | 17458 | 0.947 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs1474745 | rs1997693 | 17723 | 0.947 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs56373884 | rs2076207 | 23098 | 0.895 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs56373884 | rs2072907 | 23815 | 0.895 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs56373884 | rs2281138 | 23991 | 0.895 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs56373884 | rs13056638 | 24690 | 0.895 | chr22:44331778 | 22:44331778-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs56373884 | rs1997693 | 24955 | 0.895 | chr22:44331513 | 22:44331513-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294921 | rs2076207 | 28472 | 0.895 | chr22:44333370 | 22:44333370-A-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294921 | rs2072907 | 29189 | 0.895 | chr22:44332653 | 22:44332653-C-G | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294921 | rs2281138 | 29365 | 0.895 | chr22:44332477 | 22:44332477-T-C | 0.2611 | 0.1613 | 2.12E-02 | 1.838 | 0.210381967 |
| rs2294921 | rs1305 | | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|-----|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs4823181 | rs4823181 | 0 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs926633 | 0 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs13055900 | 6 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs13055874 | 6 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs35621602 | 10 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs2896020 | 23 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs2401512 | 23 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs4823181 | 60 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs13055900 | 60 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs4823181 | 66 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs13055874 | 66 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs35621602 | 75 | 0.947 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs16991175 | 75 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs2281135 | 77 | 0.895 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs2281135 | 83 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs16991175 | 85 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs2281135 | 93 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs1883349 | 128 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs1883349 | 165 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs2072906 | 198 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs1010022 | 212 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs2896019 | 215 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs2896019 | 251 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs2401512 | 251 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs2294916 | 271 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs2896020 | 274 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs2896019 | 274 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs2072906 | 294 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs2072906 | 307 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs2281135 | 308 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs4823181 | 308 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs2896019 | 324 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs2073081 | 328 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs35621602 | 338 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs2073081 | 338 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs2073081 | 354 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs13055900 | 368 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs13055874 | 374 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs2294916 | 376 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs2073081 | 413 | 0.947 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs16991175 | 413 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs4823181 | 413 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs1883349 | 430 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs2401512 | 466 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs13055900 | 473 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs13055874 | 479 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs2896020 | 489 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs2896020 | 508 | 0.947 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs2896020 | 518 | 0.947 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs2072906 | 519 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs2896019 | 522 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs2072906 | 522 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs2401512 | 531 | 0.947 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs1883349 | 534 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs2401512 | 541 | 0.947 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs1883349 | 550 | 0.895 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs36069781 | 560 | 1 | chr22:44340086 | 22:44340086-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs13056555 | 560 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs2896020 | 561 | 0.947 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs2073081 | 566 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs1010022 | 566 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs2401512 | 575 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs926633 | 576 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs2401512 | 584 | 0.947 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs2896020 | 598 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs2281135 | 602 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs2072906 | 602 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs2281135 | 627 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs1883349 | 627 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs1010022 | 647 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs2072906 | 679 | 0.895 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs4823181 | 684 | 0.843 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs2294916 | 684 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs35621602 | 692 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs2072906 | 695 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs1883349 | 710 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs2294916 | 744 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs13055900 | 744 | 0.843 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs2294916 | 750 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs13055874 | 750 | 0.843 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs2281135 | 755 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs16991175 | 767 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs2401512 | 773 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs2072906 | 773 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs2896019 | 782 | 0.947 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs2281135 | 792 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs2896019 | 792 | 0.947 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | | | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs2072907 | rs2896019 | 1041 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs2281135 | 1057 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs2401512 | 1067 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs2896020 | 1090 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs36069781 | 1107 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs2896019 | 1124 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs2281135 | 1124 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs2896019 | 1201 | 0.895 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs36069781 | 1212 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs2073081 | 1213 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs2073081 | 1215 | 0.947 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs2896019 | 1217 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs926633 | 1223 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs1010022 | 1223 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs2072906 | 1229 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs1883349 | 1229 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs2073081 | 1258 | 0.947 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs2073081 | 1268 | 0.947 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs2401512 | 1292 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs13055874 | 1297 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs13055900 | 1303 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs2072906 | 1304 | 0.947 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs2072906 | 1314 | 0.947 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs2896020 | 1315 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs2072906 | 1357 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs2072906 | 1357 | 0.947 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs2896020 | 1363 | 0.947 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs4823181 | 1363 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs16991175 | 1363 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs2401512 | 1375 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs2281135 | 1375 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs2401512 | 1386 | 0.947 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs16991175 | 1386 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs2072906 | 1394 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs2294916 | 1396 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs13056555 | 1396 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs2896020 | 1398 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs2281135 | 1398 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs1883349 | 1427 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs926633 | 1435 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs35621602 | 1438 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs2896020 | 1438 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs2896020 | 1448 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs2401512 | 1452 | 0.895 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs35621602 | 1461 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs2401512 | 1461 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs2401512 | 1468 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs2401512 | 1471 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs2896020 | 1475 | 0.895 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs2896020 | 1491 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs4823181 | 1520 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs36069781 | 1520 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs1883349 | 1536 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs35621602 | 1551 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs36069781 | 1580 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs13055900 | 1580 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs36069781 | 1586 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs13055874 | 1586 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs16991175 | 1626 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs2896019 | 1637 | 0.947 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs16991175 | 1637 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs2072906 | 1659 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs13056555 | 1667 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs35621602 | 1712 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs2896019 | 1712 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs2896019 | 1722 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs2896019 | 1751 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs1883349 | 1751 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs13056555 | 1772 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs2896020 | 1776 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs2073081 | 1776 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs1010022 | 1781 | 0.947 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs926633 | 1789 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs2073081 | 1789 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs2401512 | 1799 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs2073081 | 1799 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs19717081 | rs1883349 | 1815 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs1010022 | 1824 | 0.947 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs1010022 | 1834 | 0.947 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs16991175 | 1852 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs2896019 | 1879 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs2281135 | 1906 | 0.947 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs2896019 | 1916 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs2281135 | 1916 | 0.947 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs35621602 | 1927 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs2281135 | 1959 | 0.947 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs16991175 | 1961 | 0.947 | chr22: | | | | | | |

| | | | | | | | | | | |
|------------|------------|------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs13056555 | rs13055874 | 2146 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs2401512 | 2153 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs2896020 | 2153 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs2072906 | 2159 | 0.947 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs16991175 | 2159 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs2401512 | 2167 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs2896019 | 2181 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs2896020 | 2190 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs926633 | 2202 | 0.947 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs16991175 | 2202 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs35621602 | 2234 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs2072906 | 2234 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs2072906 | 2244 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs2073081 | 2265 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs2896020 | 2342 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs1010022 | 2342 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs2401512 | 2365 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs1010022 | 2365 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072607 | rs2073081 | 2374 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs2896019 | 2404 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs2401512 | 2432 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs2281135 | 2442 | 0.843 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs16991175 | 2453 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs2896020 | 2455 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs35621602 | 2528 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs1883349 | 2533 | 0.947 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs1883349 | 2543 | 0.947 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs926633 | 2553 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs36069781 | 2553 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs13056555 | 2569 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs2073081 | 2572 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs2072906 | 2572 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs1883349 | 2586 | 0.947 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs2896019 | 2616 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs1010022 | 2616 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2924433 | rs1883349 | 2668 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs16991175 | 2678 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs35621602 | 2753 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs2281135 | 2761 | 0.947 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs16991175 | 2761 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs1010022 | 2831 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs35621602 | 2836 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs2281135 | 2836 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs16991175 | 2838 | 0.836 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs2281135 | 2846 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs16991175 | 2854 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072611 | rs1883349 | 2865 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs2073081 | 2866 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs36069781 | 2883 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs35621602 | 2913 | 0.895 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs2072906 | 2926 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs35621602 | 2929 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072607 | rs1010022 | 2940 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs2896020 | 2989 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs926633 | 3004 | 0.947 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs2401512 | 3012 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs2072906 | 3044 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs926633 | 3047 | 0.947 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs926633 | 3057 | 0.947 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs2073081 | 3091 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs36069781 | 3129 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs2072906 | 3138 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs1010022 | 3138 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs2281135 | 3174 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs2073081 | 3174 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs1883349 | 3213 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs13056555 | 3216 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs1010022 | 3216 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs2073081 | 3251 | 0.895 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs2896019 | 3263 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs2073081 | 3267 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2924433 | rs2281135 | 3295 | 0.843 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs1883349 | 3388 | 0.947 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs16991175 | 3388 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs926633 | 3389 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs2294916 | 3389 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs13056555 | 3428 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs1010022 | 3432 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs13056555 | 3443 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs35621602 | 3463 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs1883349 | 3463 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs1883349 | 3473 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072611 | rs2281135 | 3492 | 0.843 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs16991175 | 3516 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs2281135 | 3528 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs16991175 | 3553 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs289 | | | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs1997693 | rs16991175 | 3818 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs1010022 | 3833 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs926633 | 3839 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs2896019 | 3839 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs2896020 | 3840 | 0.843 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs2281135 | 3840 | 0.843 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs35621602 | 3893 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs2072906 | 3897 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs2073081 | 3929 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs2294916 | 3965 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs2073081 | 3966 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs36069781 | 3988 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs926633 | 4054 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs926633 | 4073 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs4823181 | 4073 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs2072906 | 4094 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs13056555 | 4110 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs35621602 | 4120 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs13056555 | 4120 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs926633 | 4133 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs13055900 | 4133 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs926633 | 4139 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs13055874 | 4139 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs1883349 | 4155 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs926633 | 4163 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs16991175 | 4195 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs13056555 | 4195 | 0.947 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs2073081 | 4231 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs36069781 | 4342 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs2073081 | 4342 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs926633 | 4361 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs2072906 | 4361 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs1883349 | 4367 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs1010022 | 4367 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs2281135 | 4387 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs2896019 | 4419 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs2072906 | 4442 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs1010022 | 4495 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs1010022 | 4532 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs2294916 | 4612 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs1010022 | 4612 | 0.843 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs2896019 | 4616 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs4823181 | 4649 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs926633 | 4655 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs1883349 | 4670 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs2401512 | 4670 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs36069781 | 4670 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs36069781 | 4680 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs35621602 | 4680 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs2896020 | 4693 | 0.843 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs13055900 | 4709 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs13055874 | 4715 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs1883349 | 4751 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs36069781 | 4755 | 0.947 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs16991175 | 4755 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs1010022 | 4797 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010023 | rs2294916 | 4824 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs2401512 | 4867 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs926633 | 4880 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs1010022 | 4883 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs2896020 | 4890 | 0.843 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs926633 | 4963 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs926633 | rs2281135 | 4963 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs2896019 | 4964 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs1010022 | 4988 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs13056555 | 4997 | 0.947 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs73176497 | rs1883349 | 5014 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs926633 | 5040 | 0.895 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs13056555 | 5040 | 0.947 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs13056555 | 5050 | 0.947 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs926633 | 5056 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs2294916 | 5178 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs2073081 | 5178 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs2401512 | 5215 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs2896020 | 5238 | 0.843 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs1883349 | 5243 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs35621602 | 5278 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs4823181 | 5296 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs1010022 | 5296 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs2281135 | 5297 | 0.843 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs13055900 | 5356 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs1010022 | 5356 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1010022 | rs13055874 | 5362 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs1010022 | 5362 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs2281135 | 5378 | 0.843 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs926633 | 5436 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.20767 |

| | | | | | | | | | | |
|------------|------------|------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs9625962 | rs1883349 | 5671 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs926633 | 5718 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs926633 | 5755 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs35621602 | 5787 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs2896019 | 5832 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs13056555 | 5832 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs4823181 | 5862 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs16991175 | 5862 | 0.947 | chr22:4435331 | 22:4435331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs2073081 | 5862 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs2281135 | 5870 | 0.843 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs35621602 | 5892 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs2072906 | 5899 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs2073081 | 5922 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs13055900 | 5922 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs2073081 | 5928 | 1 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2073081 | rs13055874 | 5928 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs1883349 | 5947 | 0.843 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs16991175 | 5967 | 0.947 | chr22:4435331 | 22:4435331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs2072906 | 5980 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs926633 | 6020 | 1 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs13056555 | 6047 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs36069781 | 6118 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs2896020 | 6118 | 1 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs35621602 | 6131 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs36069781 | 6141 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs2401512 | 6141 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs13056555 | 6156 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs1010022 | 6182 | 0.843 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs4823181 | 6190 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs4823181 | 6200 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs35621602 | 6200 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs13055900 | 6250 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34352134 | rs13055874 | 6256 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs35621602 | 6260 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs13055900 | 6260 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs35621602 | 6266 | 1 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs35621602 | rs13055874 | 6266 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs4823181 | 6275 | 0.947 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs16991175 | 6275 | 0.947 | chr22:4435331 | 22:4435331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs2281135 | 6298 | 0.843 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs35621602 | 6328 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs16991175 | 6335 | 0.947 | chr22:4435331 | 22:4435331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs13055900 | 6335 | 0.947 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs16991175 | 6341 | 0.947 | chr22:4435331 | 22:4435331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991175 | rs13055874 | 6341 | 0.947 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs2072906 | 6354 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs13056555 | 6354 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs36069781 | 6392 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs2896019 | 6392 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs2294916 | 6393 | 0.891 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs2896019 | 6421 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs2294916 | 6436 | 0.891 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823176 | rs2294916 | 6446 | 0.891 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs2073081 | 6469 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs2072906 | 6472 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs2896019 | 6502 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs2281135 | 6574 | 0.843 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs36069781 | 6607 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs13056555 | 6648 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs1010022 | 6659 | 1 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs2073081 | 6666 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs2401512 | 6672 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs35621602 | 6676 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs2896020 | 6695 | 0.843 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs36069781 | 6716 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs2401512 | 6753 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs13055874 | 6774 | 0.947 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs2896020 | 6776 | 0.843 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs13055900 | 6780 | 0.947 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4912062 | rs4823181 | 6840 | 0.947 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs13056555 | 6873 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs2072906 | 6900 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs36069781 | 6914 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs2072906 | 6914 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs2896020 | 6954 | 0.843 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs2294916 | 6954 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs2281135 | 6956 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs13056555 | 6956 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs2401512 | 6977 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs2294916 | 6977 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs2896019 | 6994 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs2073081 | 7014 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs13056555 | 7033 | 0.895 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs1010022 | 7035 | 0.843 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs13056555 | 7049 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823178 | rs4823181 | 7077 | 0.947 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823177 | rs | | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs1977081 | rs926633 | 7405 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs2896019 | 7422 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs36069781 | 7433 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs2294916 | 7443 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs2896019 | 7499 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs36069781 | 7516 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs2281135 | 7516 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs2294916 | 7552 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs35621602 | 7563 | 1 | chr22:44335406 | a rs2294916 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs13055874 | 7564 | 0.947 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs13055900 | 7570 | 0.947 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs1010022 | 7580 | 0.843 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056555 | rs1883349 | 7583 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs13056555 | 7583 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs36069781 | 7593 | 0.895 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs2896019 | 7604 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs36069781 | 7609 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs4823181 | 7630 | 0.947 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs16991175 | 7638 | 0.947 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs4823181 | 7638 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs2896020 | 7638 | 1 | chr22:4433968 | 22:4433968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs4823181 | 7661 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs2401512 | 7661 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs2401512 | 7673 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs2896020 | 7696 | 0.843 | chr22:4433968 | 22:4433968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs2896019 | 7698 | 0.843 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs2896020 | 7698 | 1 | chr22:4433968 | 22:4433968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs13059000 | 7698 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs2896020 | 7704 | 1 | chr22:4433968 | 22:4433968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896020 | rs13055874 | 7704 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs13056555 | 7711 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs2401512 | 7721 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs13055900 | 7721 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs13056555 | 7725 | 0.947 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs2401512 | 7727 | 1 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2401512 | rs13055874 | 7727 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs13056638 | 7748 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs2294916 | 7750 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs2072906 | 7750 | 0.843 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs4823181 | 7912 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs2896019 | 7912 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs2401512 | 7949 | 0.843 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs2896020 | 7972 | 0.843 | chr22:4433968 | 22:4433968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs2896019 | 7972 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs13059000 | 7972 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs2896019 | 7978 | 1 | chr22:44333694 | a rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2896019 | rs13055874 | 7978 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs13056555 | 8013 | 1 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs2072906 | 8021 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs2294916 | 8044 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs2072906 | 8126 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs4823181 | 8127 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs35621602 | 8133 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs36069781 | 8143 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36069781 | rs1883349 | 8143 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs13055900 | 8187 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072905 | rs13055874 | 8193 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs35621602 | 8214 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs4823181 | 8236 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs926633 | 8258 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072907 | rs2294916 | 8269 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs36069781 | 8271 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs13055900 | 8296 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076207 | rs13055874 | 8302 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs36069781 | 8308 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281135 | rs2294916 | 8352 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294916 | rs2281135 | 8352 | 0.843 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs36069781 | 8360 | 0.947 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs4823181 | 8434 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs2072906 | 8434 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs2294916 | 8445 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs926633 | 8455 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs2073081 | 8471 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs2072906 | 8494 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs13059000 | 8494 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs2072906 | 8500 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2072906 | rs13055874 | 8500 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs2073081 | 8552 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs36069781 | 8573 | 1 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs2281135 | 8623 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs35621602 | 8706 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs4823181 | 8728 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs2281135 | 8728 | 1 | chr22:44332570 | a exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs13055900 | 8788 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34879941 | rs13055874 | 8794 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs926633 | 8803 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912 | | | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|-------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs13056638 | rs2294916 | 9144 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs36069781 | 9150 | 0.947 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs13055900 | 9173 | 0.895 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281137 | rs13055874 | 9179 | 0.895 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs13055900 | 9189 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2281138 | rs13055874 | 9195 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823179 | rs1883349 | 9250 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs2896019 | 9275 | 1 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823180 | rs1883349 | 9355 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs13056555 | 9398 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs2294916 | 9409 | 0.843 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs35621602 | 9410 | 0.843 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs2073081 | 9472 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs1010022 | 9610 | 0.843 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs4823181 | 9663 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823181 | rs1883349 | 9663 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs13056555 | 9710 | 0.947 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs926633 | 9718 | 0.947 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055900 | rs1883349 | 9723 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs13055900 | 9723 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13055874 | rs1883349 | 9729 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883349 | rs13055874 | 9729 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs2073081 | 9748 | 0.843 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs4823181 | 9791 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs2072906 | 9797 | 1 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs4823181 | 9828 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs13059000 | 9851 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1883348 | rs13055874 | 9857 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs13059000 | 9888 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs13056638 | rs13055874 | 9894 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs36069781 | 9958 | 0.843 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs1010022 | 10038 | 0.843 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs4823181 | 10093 | 1 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs13055900 | 10153 | 1 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1997693 | rs13055874 | 10159 | 1 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs13056555 | 10251 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs926633 | 10260 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs1010022 | 10314 | 0.843 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs926633 | 10341 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs2281135 | 10399 | 1 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs13056555 | 10448 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs13056555 | 10796 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs36069781 | 10811 | 0.843 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs926633 | 10833 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs926633 | 10913 | 0.947 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs1010022 | 10941 | 0.947 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs36069781 | 11008 | 0.843 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2008451 | rs1883349 | 11026 | 1 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs926633 | 11261 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs36069781 | 11356 | 0.843 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs4823181 | 11478 | 0.843 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs2073081 | 11507 | 0.947 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs926633 | 11537 | 0.843 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs13055900 | 11538 | 0.843 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1977081 | rs13055874 | 11544 | 0.843 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs926633 | 11703 | 0.947 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs35621602 | 11845 | 0.947 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs16991175 | 11920 | 0.891 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs1010022 | 12136 | 0.947 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs13056555 | 12253 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs4823181 | 12331 | 0.843 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs13056555 | 12334 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs13059000 | 12391 | 0.843 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294433 | rs13055874 | 12397 | 0.843 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs4823181 | 12528 | 0.843 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs13055900 | 12588 | 0.843 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2076211 | rs13055874 | 12594 | 0.843 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs2073081 | 12702 | 0.947 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12484700 | rs36069781 | 12813 | 0.843 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs13056555 | 12826 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs4823181 | 12876 | 0.843 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36055245 | rs36069781 | 12894 | 0.843 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs1010022 | 12926 | 0.947 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs13055900 | 12936 | 0.843 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823173 | rs13055874 | 12942 | 0.843 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs35621602 | 13040 | 0.947 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs16991175 | 13115 | 0.891 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs13056555 | 13254 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs2896020 | 13283 | 0.947 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs2401512 | 13306 | 0.947 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs11090617 | rs36069781 | 13386 | 0.843 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs2073081 | 13492 | 0.947 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs13056555 | 13530 | 0.843 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs2896019 | 13557 | 0.947 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs16991158 | rs2294916 | 13743 | 0.823 | chr22:44340922 | 22:4434 | | | | | |

| | | | | | | | | | | |
|------------|------------|-------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs34912062 | rs2072906 | 15274 | 0.947 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs2401512 | 15291 | 0.947 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2092501 | rs1883349 | 15308 | 0.947 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs4823181 | 15334 | 0.843 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs13055900 | 15394 | 0.843 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs9625962 | rs13055874 | 15400 | 0.843 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs2896019 | 15542 | 0.947 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs2294916 | 15546 | 0.83 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs4823181 | 15610 | 0.843 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs13055900 | 15670 | 0.843 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs12483959 | rs13055874 | 15676 | 0.843 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs2281135 | 15876 | 0.947 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs2072906 | 16064 | 0.947 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs36069781 | 16382 | 0.895 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs34912062 | rs1883349 | 16503 | 0.947 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs2281135 | 16666 | 0.947 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs13056555 | 16942 | 0.895 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs1474745 | rs1883349 | 17293 | 0.947 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs926633 | 18935 | 0.895 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs1010022 | 20158 | 0.895 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs13055874 | 20170 | 0.895 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs13055900 | 20176 | 0.895 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs4823181 | 20236 | 0.895 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs2073081 | 20724 | 0.895 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs2294916 | 20920 | 0.83 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs35621602 | 21062 | 0.895 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs16991175 | 21137 | 0.836 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs36069781 | 21756 | 0.895 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs13056555 | 22316 | 0.895 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs2896020 | 22500 | 0.895 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs2401512 | 22523 | 0.895 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs2896019 | 22774 | 0.895 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs2072906 | 23296 | 0.895 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs2281135 | 23898 | 0.895 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs926633 | 24309 | 0.895 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs56373884 | rs1883349 | 24525 | 0.895 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs1010022 | 25532 | 0.895 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs2073081 | 26098 | 0.895 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs35621602 | 26436 | 0.895 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs13055874 | 26450 | 0.895 | chr22:44341672 | 22:44341672-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs13055900 | 26456 | 0.895 | chr22:44341666 | 22:44341666-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs16991175 | 26511 | 0.836 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs4823181 | 26516 | 0.895 | chr22:44341606 | 22:44341606-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs2294916 | 27200 | 0.83 | chr22:44340922 | 22:44340922-T-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs2896020 | 27874 | 0.895 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs2401512 | 27897 | 0.895 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs36069781 | 28036 | 0.895 | chr22:44340086 | 22:44340086-C-T | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs2896019 | 28148 | 0.895 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs13056555 | 28596 | 0.895 | chr22:44339526 | 22:44339526-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs2072906 | 28670 | 0.895 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs2281135 | 29272 | 0.895 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs2294921 | rs1883349 | 29899 | 0.895 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs926633 | 30589 | 0.895 | chr22:44337533 | 22:44337533-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs1010022 | 31812 | 0.895 | chr22:44336310 | 22:44336310-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs2073081 | 32378 | 0.895 | chr22:44335744 | 22:44335744-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs35621602 | 32716 | 0.895 | chr22:44335406 | 22:44335406-C-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs16991175 | 32791 | 0.836 | chr22:44335331 | 22:44335331-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs2896020 | 34154 | 0.895 | chr22:44333968 | 22:44333968-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs2401512 | 34177 | 0.895 | chr22:44333945 | 22:44333945-C-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs2896019 | 34428 | 0.895 | chr22:44333694 | a_rs2896019 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs2072906 | 34950 | 0.895 | chr22:44333172 | 22:44333172-A-G | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs2281135 | 35552 | 0.895 | chr22:44332570 | a_exm-rs2281135 | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs3761472 | rs1883349 | 36179 | 0.895 | chr22:44331943 | 22:44331943-G-A | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs36038527 | rs36038527 | 0 | 1 | chr22:44332888 | 22:44332888-T-C | 0.2556 | 0.1613 | 2.88E-02 | 1.785 | 0.207677049 |
| rs4823182 | rs4823182 | 0 | 1 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs67450864 | rs67450864 | 0 | 1 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs4823182 | rs67450864 | 1107 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs67450864 | rs4823182 | 1107 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006602 | rs4823182 | 5958 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006468 | rs4823182 | 5990 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006469 | rs4823182 | 6175 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006602 | rs67450864 | 7065 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006468 | rs67450864 | 7097 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006469 | rs67450864 | 7282 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs3788604 | rs4823182 | 10975 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs3788604 | rs67450864 | 12082 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006473 | rs4823182 | 15633 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs6006473 | rs67450864 | 16740 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs2281292 | rs4823182 | 17947 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs1007863 | rs4823182 | 18009 | 0.872 | chr22:44377442 | 22:44377442-A-G | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs2281292 | rs67450864 | 19054 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs1007863 | rs67450864 | 19116 | 0.872 | chr22:44376335 | 22:44376335-C-T | 0.4278 | 0.3172 | 3.09E-02 | 1.609 | 0.371593443 |
| rs3788604 | rs3788604 | 0 | 1 | chr22:44388417 | 22:44388417-A-G | 0.4889 | 0.3763 | 3.48E-02 | 1.585 | 0.431677049 |
| rs6006468 | rs6006468 | 0 | 1 | chr22:44383432 | 22:44383432-G-C | 0.4889 | 0.3763 | 3.48E-02 | 1.585 | 0.431677049 |
| rs6006602 | rs6006468 | | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|-------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs35621602 | rs36055245 | 8214 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs34352134 | rs36055245 | 8224 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2073081 | rs36055245 | 8552 | 0.843 | chr22:44326700 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs35621602 | rs11090617 | 8706 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs34352134 | rs11090617 | 8716 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010023 | rs36055245 | 8906 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2073081 | rs11090617 | 9044 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010022 | rs36055245 | 9118 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs35621602 | rs9625962 | 9134 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs34352134 | rs9625962 | 9144 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010023 | rs11090617 | 9398 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs35621602 | rs12483959 | 9410 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs34352134 | rs12483959 | 9420 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2073081 | rs9625962 | 9472 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010022 | rs11090617 | 9610 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2073081 | rs12483959 | 9748 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs73176497 | rs36055245 | 9765 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010023 | rs9625962 | 9826 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010022 | rs9625962 | 10038 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010023 | rs12483959 | 10102 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs73176497 | rs11090617 | 10257 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs1010022 | rs12483959 | 10314 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs926633 | rs36055245 | 10341 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs73176497 | rs9625962 | 10685 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs926633 | rs11090617 | 10833 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs73176497 | rs12483959 | 10961 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs926633 | rs9625962 | 11261 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs926633 | rs12483959 | 11537 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13056555 | rs36055245 | 12334 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13056555 | rs11090617 | 12826 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs36069781 | rs36055245 | 12894 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13056555 | rs9625962 | 13254 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs36069781 | rs11090617 | 13386 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13056555 | rs12483959 | 13530 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2294916 | rs16991158 | 13743 | 0.823 | chr22:44327179 | 22:44327179-G-A | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs36069781 | rs9625962 | 13814 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823179 | rs36055245 | 14001 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs36069781 | rs12483959 | 14090 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823180 | rs36055245 | 14106 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823181 | rs36055245 | 14414 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055900 | rs36055245 | 14474 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055874 | rs36055245 | 14480 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823179 | rs11090617 | 14493 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823180 | rs11090617 | 14598 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823181 | rs11090617 | 14906 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823179 | rs9625962 | 14921 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055900 | rs11090617 | 14966 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055874 | rs11090617 | 14972 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823180 | rs9625962 | 15026 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823179 | rs12483959 | 15197 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823180 | rs12483959 | 15302 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823181 | rs9625962 | 15334 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055900 | rs9625962 | 15394 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055874 | rs9625962 | 15400 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs4823181 | rs12483959 | 15610 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055900 | rs12483959 | 15670 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs13055874 | rs12483959 | 15676 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2008451 | rs36055245 | 15777 | 0.843 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2008451 | rs11090617 | 16269 | 0.843 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2008451 | rs9625962 | 16697 | 0.843 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2008451 | rs12483959 | 16973 | 0.843 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs56373884 | rs36055245 | 29276 | 0.83 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs56373884 | rs11090617 | 29768 | 0.83 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs56373884 | rs9625962 | 30196 | 0.83 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs56373884 | rs12483959 | 30472 | 0.83 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2294921 | rs36055245 | 34650 | 0.83 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2294921 | rs11090617 | 35142 | 0.83 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2294921 | rs9625962 | 35570 | 0.83 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs2294921 | rs12483959 | 35846 | 0.83 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs3761472 | rs36055245 | 40930 | 0.83 | chr22:44327192 | 22:44327192-A-G | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs3761472 | rs11090617 | 41422 | 0.83 | chr22:44326700 | 22:44326700-C-T | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs3761472 | rs9625962 | 41850 | 0.83 | chr22:44326272 | 22:44326272-T-C | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs3761472 | rs12483959 | 42126 | 0.83 | chr22:44325996 | a_rs12483959 | 0.2444 | 0.1559 | 3.69E-02 | 1.752 | 0.19942459 |
| rs12484466 | rs12484466 | 0 | 1 | chr22:44330213 | 22:44330213-A-G | 0.25 | 0.1613 | 3.88E-02 | 1.733 | 0.204922951 |
| rs2235776 | rs2235776 | 0 | 1 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2235777 | rs2235777 | 0 | 1 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294923 | rs2294923 | 0 | 1 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs61473277 | rs61473277 | 0 | 1 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs9626079 | rs9626079 | 0 | 1 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294923 | rs9626079 | 269 | 1 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs9626079 | rs2294923 | 269 | 1 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2235776 | rs2235777 | 810 | 1 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2235777 | rs2235776 | 810 | 1 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2235777 | rs2294923 | 931 | 1 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294923 | rs2235777 | 931 | 1 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2235777 | rs9626079 | 1200 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|-------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs9626079 | rs61473277 | 8603 | 1 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294921 | rs61473277 | 9564 | 0.887 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs3761472 | rs2235776 | 9877 | 0.887 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs4823108 | rs61473277 | 9934 | 1 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs4823109 | rs61473277 | 10076 | 1 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs3761472 | rs2235776 | 10687 | 0.887 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs3761472 | rs2294923 | 11618 | 0.887 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs3761472 | rs9626079 | 11887 | 0.887 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs56373884 | rs61473277 | 14938 | 0.887 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294921 | rs2235776 | 16157 | 0.887 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294921 | rs2235776 | 16967 | 0.887 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294921 | rs2294923 | 17898 | 0.887 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2294921 | rs9626079 | 18167 | 0.887 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs56373884 | rs2235776 | 21531 | 0.887 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs1474745 | rs61473277 | 22170 | 0.838 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs56373884 | rs2235776 | 22341 | 0.887 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs34912062 | rs61473277 | 22960 | 0.838 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs56373884 | rs2294923 | 23272 | 0.887 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs56373884 | rs9626079 | 23541 | 0.887 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2092501 | rs61473277 | 24155 | 0.838 | chr22:44371406 | 22:44371406-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs1474745 | rs2235776 | 28763 | 0.838 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs34912062 | rs2235776 | 29553 | 0.838 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs1474745 | rs2235776 | 29573 | 0.838 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs34912062 | rs2235776 | 30363 | 0.838 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs1474745 | rs2294923 | 30504 | 0.838 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2092501 | rs2235776 | 30748 | 0.838 | chr22:44377999 | 22:44377999-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs1474745 | rs9626079 | 30773 | 0.838 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs34912062 | rs2294923 | 31294 | 0.838 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2092501 | rs2235776 | 31558 | 0.838 | chr22:44378809 | 22:44378809-C-T | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs34912062 | rs9626079 | 31563 | 0.838 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2092501 | rs2294923 | 32489 | 0.838 | chr22:44379740 | 22:44379740-C-A | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs2092501 | rs9626079 | 32758 | 0.838 | chr22:44380009 | 22:44380009-A-G | 0.2167 | 0.1344 | 4.01E-02 | 1.781 | 0.17487541 |
| rs1007863 | rs1007863 | 0 | 1 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs2281292 | rs2281292 | 0 | 1 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs1007863 | rs2281292 | 62 | 1 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs2281292 | rs1007863 | 62 | 1 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006473 | rs2281292 | 2314 | 1 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006473 | rs1007863 | 2376 | 1 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs2235778 | rs2281292 | 5875 | 0.902 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs2235778 | rs1007863 | 5937 | 0.902 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs3788604 | rs2281292 | 6972 | 1 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs3788604 | rs1007863 | 7034 | 1 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006469 | rs2281292 | 11772 | 1 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006469 | rs1007863 | 11834 | 1 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006468 | rs2281292 | 11957 | 1 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006602 | rs2281292 | 11989 | 1 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006468 | rs1007863 | 12019 | 1 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006602 | rs1007863 | 12051 | 1 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs4823182 | rs2281292 | 17947 | 0.872 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs4823182 | rs1007863 | 18009 | 0.872 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs67450864 | rs2281292 | 19054 | 0.872 | chr22:44395389 | 22:44395389-A-C | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs67450864 | rs1007863 | 19116 | 0.872 | chr22:44395451 | exm1616070 | 0.4833 | 0.3763 | 4.48E-02 | 1.55 | 0.428922951 |
| rs6006469 | rs6006469 | 185 | 1 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs6006468 | rs6006469 | 0 | 1 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs6006602 | rs6006469 | 217 | 1 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs3788604 | rs6006469 | 4800 | 1 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs2235778 | rs6006469 | 5897 | 0.902 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs4823182 | rs6006469 | 6175 | 0.872 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs67450864 | rs6006469 | 7282 | 0.872 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs6006473 | rs6006469 | 9458 | 1 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs2281292 | rs6006469 | 11772 | 1 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs1007863 | rs6006469 | 11834 | 1 | chr22:44383617 | 22:44383617-C-G | 0.4889 | 0.3817 | 4.51E-02 | 1.549 | 0.434421311 |
| rs2092501 | rs2092501 | 0 | 1 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs34912062 | rs34912062 | 0 | 1 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1474745 | rs34912062 | 790 | 1 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2092501 | rs34912062 | 1195 | 1 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs34912062 | rs2092501 | 1195 | 1 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1474745 | rs2092501 | 1985 | 1 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2008451 | rs2092501 | 4282 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2008451 | rs34912062 | 5477 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13055874 | rs2092501 | 5579 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13055900 | rs2092501 | 5585 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823181 | rs2092501 | 5645 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823180 | rs2092501 | 5953 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823179 | rs2092501 | 6058 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13055874 | rs34912062 | 6774 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13055900 | rs34912062 | 6780 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823181 | rs34912062 | 6840 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823180 | rs34912062 | 7148 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs36069781 | rs2092501 | 7165 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823179 | rs34912062 | 7253 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13055555 | rs2092501 | 7725 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs56373884 | rs34912062 | 8022 | 0.945 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs36069781 | rs34912062 | 8360 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13055555 | rs34912062 | 8920 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs56373884 | rs2092501 | 9217 | 0.945 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs926633 | rs2092501 | 9718 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|-------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs2294921 | rs34912062 | 13396 | 0.945 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2896010 | rs2092501 | 13557 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2072905 | rs2092501 | 13772 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2076207 | rs2092501 | 13881 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823178 | rs34912062 | 13917 | 0.891 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823177 | rs34912062 | 13960 | 0.891 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823176 | rs34912062 | 13970 | 0.891 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2072906 | rs2092501 | 14079 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs34879941 | rs2092501 | 14373 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2896020 | rs34912062 | 14478 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2401512 | rs34912062 | 14501 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2294921 | rs2092501 | 14591 | 0.945 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2072907 | rs2092501 | 14598 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2281135 | rs2092501 | 14681 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2896019 | rs34912062 | 14752 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2281137 | rs2092501 | 14758 | 0.836 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2281138 | rs2092501 | 14774 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2072905 | rs34912062 | 14967 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2076207 | rs34912062 | 15076 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2072906 | rs34912062 | 15274 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1883349 | rs2092501 | 15308 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1883348 | rs2092501 | 15436 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13056638 | rs2092501 | 15473 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs34879941 | rs34912062 | 15568 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1997693 | rs2092501 | 15738 | 0.947 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2072907 | rs34912062 | 15793 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2281135 | rs34912062 | 15876 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2281137 | rs34912062 | 15953 | 0.836 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2281138 | rs34912062 | 15969 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1883349 | rs34912062 | 16503 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1883348 | rs34912062 | 16631 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs13056638 | rs34912062 | 16668 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs1997693 | rs34912062 | 16933 | 0.947 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs3761472 | rs34912062 | 19676 | 0.945 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs3761472 | rs2092501 | 20871 | 0.945 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs61473277 | rs34912062 | 22960 | 0.838 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs61473277 | rs2092501 | 24155 | 0.838 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2235776 | rs34912062 | 29553 | 0.838 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2235777 | rs34912062 | 30363 | 0.838 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2235776 | rs2092501 | 30748 | 0.838 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2294923 | rs34912062 | 31294 | 0.838 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2235777 | rs2092501 | 31558 | 0.838 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs9626079 | rs34912062 | 31563 | 0.838 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs2294923 | rs2092501 | 32489 | 0.838 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs9626079 | rs2092501 | 32758 | 0.838 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823108 | rs34912062 | 32894 | 0.838 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823109 | rs34912062 | 33036 | 0.838 | chr22:44348446 | 22:44348446-G-T | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823108 | rs2092501 | 34089 | 0.838 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs4823109 | rs2092501 | 34231 | 0.838 | chr22:44347251 | 22:44347251-G-A | 0.2389 | 0.1559 | 4.94E-02 | 1.699 | 0.196719672 |
| rs3761472 | rs3761472 | 0 | 1 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs61473277 | rs3761472 | 3284 | 0.887 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2294921 | rs3761472 | 6280 | 1 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2235776 | rs3761472 | 9877 | 0.887 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2235777 | rs3761472 | 10687 | 0.887 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2294923 | rs3761472 | 11618 | 0.887 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs56373884 | rs3761472 | 11654 | 1 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs9626079 | rs3761472 | 11887 | 0.887 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823108 | rs3761472 | 13218 | 0.887 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823109 | rs3761472 | 13360 | 0.887 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs1474745 | rs3761472 | 18886 | 0.945 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs34912062 | rs3761472 | 19676 | 0.945 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2092501 | rs3761472 | 20871 | 0.945 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2008451 | rs3761472 | 25153 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs13055874 | rs3761472 | 26450 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs13055900 | rs3761472 | 26456 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823181 | rs3761472 | 26516 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823180 | rs3761472 | 26824 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823179 | rs3761472 | 26929 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2294916 | rs3761472 | 27200 | 0.83 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs36069781 | rs3761472 | 28036 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs13055555 | rs3761472 | 28596 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs926633 | rs3761472 | 30589 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs73176497 | rs3761472 | 31165 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs1010022 | rs3761472 | 31812 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs1010023 | rs3761472 | 32024 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2073081 | rs3761472 | 32378 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs34352134 | rs3761472 | 32706 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs35621602 | rs3761472 | 32716 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs16991175 | rs3761472 | 32791 | 0.836 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823178 | rs3761472 | 33593 | 0.836 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823177 | rs3761472 | 33636 | 0.836 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs4823176 | rs3761472 | 33646 | 0.836 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2896020 | rs3761472 | 34154 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2401512 | rs3761472 | 34177 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2896019 | rs3761472 | 34428 | 0.895 | chr22:44368122 | exm1615990 | 0.2444 | 0.1613 | 5.16E-02 | 1.682 | 0.202168852 |
| rs2072905 | rs3761472 | 34643 | 0.895 | chr22:44368122 | | | | | | |

| | | | | | | | | | | |
|------------|-----------|-------|-------|----------------|-----------------|--------|--------|----------|-------|-------------|
| rs1007863 | rs6006473 | 2376 | 1 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs2235778 | rs6006473 | 3561 | 0.902 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs3788604 | rs6006473 | 4658 | 1 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs6006469 | rs6006473 | 9458 | 1 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs6006468 | rs6006473 | 9643 | 1 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs6006602 | rs6006473 | 9675 | 1 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs4823182 | rs6006473 | 15633 | 0.872 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs67450864 | rs6006473 | 16740 | 0.872 | chr22:44393075 | 22:44393075-C-T | 0.4833 | 0.3817 | 5.75E-02 | 1.515 | 0.431667213 |
| rs1474745 | rs1474745 | 0 | 1 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs34912062 | rs1474745 | 790 | 1 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2092501 | rs1474745 | 1985 | 1 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2008451 | rs1474745 | 6267 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs56373884 | rs1474745 | 7232 | 0.945 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs13055874 | rs1474745 | 7564 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs13055900 | rs1474745 | 7570 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823181 | rs1474745 | 7630 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823180 | rs1474745 | 7938 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823179 | rs1474745 | 8043 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs36069781 | rs1474745 | 9150 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs13056555 | rs1474745 | 9710 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs926633 | rs1474745 | 11703 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs73176497 | rs1474745 | 12279 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs292491 | rs1474745 | 12606 | 0.945 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs1010022 | rs1474745 | 12926 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs1010023 | rs1474745 | 13138 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2073081 | rs1474745 | 13492 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs34352134 | rs1474745 | 13820 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs35621602 | rs1474745 | 13830 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs16991175 | rs1474745 | 13905 | 0.891 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823178 | rs1474745 | 14707 | 0.891 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823177 | rs1474745 | 14750 | 0.891 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823176 | rs1474745 | 14760 | 0.891 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2896020 | rs1474745 | 15268 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2401512 | rs1474745 | 15291 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2896019 | rs1474745 | 15542 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2072905 | rs1474745 | 15757 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2076207 | rs1474745 | 15866 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2072906 | rs1474745 | 16064 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs34879941 | rs1474745 | 16358 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2072907 | rs1474745 | 16583 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2281135 | rs1474745 | 16666 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2281137 | rs1474745 | 16743 | 0.836 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2281138 | rs1474745 | 16759 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs1883349 | rs1474745 | 17293 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs1883348 | rs1474745 | 17421 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs13056638 | rs1474745 | 17458 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs1997693 | rs1474745 | 17723 | 0.947 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs3761472 | rs1474745 | 18886 | 0.945 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs61473277 | rs1474745 | 22170 | 0.838 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2235776 | rs1474745 | 28763 | 0.838 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2235777 | rs1474745 | 29573 | 0.838 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs2294923 | rs1474745 | 30504 | 0.838 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs9626079 | rs1474745 | 30773 | 0.838 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823108 | rs1474745 | 32104 | 0.838 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823109 | rs1474745 | 32246 | 0.838 | chr22:44349236 | 22:44349236-T-C | 0.2389 | 0.1613 | 6.81E-02 | 1.632 | 0.199463934 |
| rs4823180 | rs4823180 | 0 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs4823179 | rs4823180 | 105 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs4823181 | rs4823180 | 308 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs13055900 | rs4823180 | 368 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs13055874 | rs4823180 | 374 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2294916 | rs4823180 | 376 | 0.843 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs36069781 | rs4823180 | 1212 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2008451 | rs4823180 | 1671 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs13056555 | rs4823180 | 1772 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs926633 | rs4823180 | 3765 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs73176497 | rs4823180 | 4341 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs1010022 | rs4823180 | 4988 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs1010023 | rs4823180 | 5200 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2073081 | rs4823180 | 5554 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs34352134 | rs4823180 | 5882 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs35621602 | rs4823180 | 5892 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2092501 | rs4823180 | 5953 | 0.947 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs16991175 | rs4823180 | 5967 | 0.947 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs4823178 | rs4823180 | 6769 | 0.947 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs4823177 | rs4823180 | 6812 | 0.947 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs4823176 | rs4823180 | 6822 | 0.947 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs34912062 | rs4823180 | 7148 | 0.947 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2896020 | rs4823180 | 7330 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2401512 | rs4823180 | 7353 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2896019 | rs4823180 | 7604 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2072905 | rs4823180 | 7819 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2076207 | rs4823180 | 7928 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs1474745 | rs4823180 | 7938 | 0.947 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2072906 | rs4823180 | 8126 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs34879941 | rs4823180 | 8420 | 1 | chr22:44341298 | 22:44341298-G-A | 0.2611 | 0.1828 | 7.86E-02 | 1.58 | 0.221308197 |
| rs2072907 | rs4823180 | 8645 | 1 | | | | | | | |

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|------------|------------|--------|-------|----------------|------------------|---------|---------|----------|-------|--------------|
| rs2143571 | rs2281298 | 452 | 1 | chr22:44391234 | 22:44391234-G-A | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs2281298 | rs2143571 | 452 | 1 | chr22:44391686 | a_rs2143571 | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs2401514 | rs2143571 | 2333 | 1 | chr22:44391686 | a_rs2143571 | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs3827385 | rs2281298 | 2417 | 1 | chr22:44391234 | 22:44391234-G-A | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs2073080 | rs2143571 | 2716 | 1 | chr22:44391686 | a_rs2143571 | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs2401514 | rs2281298 | 2785 | 1 | chr22:44391234 | 22:44391234-G-A | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs3827385 | rs2143571 | 2869 | 1 | chr22:44391686 | a_rs2143571 | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs2073080 | rs2281298 | 3168 | 1 | chr22:44391234 | 22:44391234-G-A | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs2073079 | rs2281298 | 5640 | 1 | chr22:44391234 | 22:44391234-G-A | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs2073079 | rs2143571 | 6092 | 1 | chr22:44391686 | a_rs2143571 | 0.25 | 0.1828 | 1.29E-01 | 1.49 | 0.21584918 |
| rs626283 | rs641738 | 238 | 0.967 | chr19:54676763 | exm1503267 | 0.4833 | 0.4032 | 1.41E-01 | 1.385 | 0.442593443 |
| rs2073079 | rs2073079 | 0 | 1 | chr22:44385594 | 22:44385594-A-G | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2073080 | rs2073080 | 0 | 1 | chr22:44394402 | 22:44394402-C-T | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2401514 | rs2401514 | 0 | 1 | chr22:44394019 | 22:44394019-T-A | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2073080 | rs2401514 | 383 | 1 | chr22:44394019 | 22:44394019-T-A | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2401514 | rs2073080 | 383 | 1 | chr22:44394402 | 22:44394402-C-T | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2143571 | rs2401514 | 2333 | 1 | chr22:44394019 | 22:44394019-T-A | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2143571 | rs2073080 | 2716 | 1 | chr22:44394402 | 22:44394402-C-T | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2281298 | rs2401514 | 2785 | 1 | chr22:44394019 | 22:44394019-T-A | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2281298 | rs2073080 | 3168 | 1 | chr22:44394402 | 22:44394402-C-T | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs3827385 | rs2073079 | 3223 | 1 | chr22:44385594 | 22:44385594-A-G | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs3827385 | rs2401514 | 5202 | 1 | chr22:44394019 | 22:44394019-T-A | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs3827385 | rs2073080 | 5585 | 1 | chr22:44394402 | 22:44394402-C-T | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
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| rs2073079 | rs2401514 | 8425 | 1 | chr22:44394019 | 22:44394019-T-A | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2401514 | rs2073079 | 8425 | 1 | chr22:44385594 | 22:44385594-A-G | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2073079 | rs2073080 | 8808 | 1 | chr22:44394402 | 22:44394402-C-T | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs2073080 | rs2073079 | 8808 | 1 | chr22:44385594 | 22:44385594-A-G | 0.25 | 0.1882 | 1.65E-01 | 1.438 | 0.218593443 |
| rs1883350 | rs1883350 | 0 | 1 | chr22:44328043 | 22:44328043-T-C | 0.3278 | 0.2849 | 4.27E-01 | 1.224 | 0.305998361 |
| rs10401969 | rs10401969 | 0 | 1 | chr19:1940718 | a_exm-rs10401969 | 0.08333 | 0.06452 | 5.52E-01 | 1.318 | 0.07377082 |
| rs58542926 | rs58542926 | 0 | 1 | chr19:19379549 | exm1447311 | 0.08333 | 0.06452 | 5.52E-01 | 1.318 | 0.07377082 |
| rs10401969 | rs58542926 | 28169 | 0.803 | chr19:19379549 | exm1447311 | 0.08333 | 0.06452 | 5.52E-01 | 1.318 | 0.07377082 |
| rs58542926 | rs10401969 | 28169 | 0.803 | chr19:1940718 | a_exm-rs10401969 | 0.08333 | 0.06452 | 5.52E-01 | 1.318 | 0.07377082 |
| rs10401969 | rs73002956 | 171025 | 1 | chr19:19578743 | 19:19578743-A-G | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs58542926 | rs73002956 | 199194 | 0.803 | chr19:19578743 | 19:19578743-A-G | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs10401969 | rs3794991 | 202878 | 1 | chr19:19610596 | 19:19610596-C-T | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs58542926 | rs3794991 | 231047 | 0.803 | chr19:19610596 | 19:19610596-C-T | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs10401969 | rs17216525 | 254502 | 0.901 | chr19:19662200 | a_exm-rs17216525 | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs10401969 | rs17216588 | 256359 | 0.901 | chr19:19664077 | 19:19664077-C-T | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs10401969 | rs73004926 | 263548 | 1 | chr19:19671266 | 19:19671266-C-T | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs58542926 | rs73004926 | 291717 | 0.803 | chr19:19671266 | 19:19671266-C-T | 0.08889 | 0.06989 | 5.64E-01 | 1.298 | 0.079234262 |
| rs10401969 | rs16996148 | 250754 | 0.901 | chr19:19688472 | a_exm-rs16996148 | 0.08333 | 0.06989 | 6.96E-01 | 1.21 | 0.076499836 |
| rs10401969 | rs73004966 | 308840 | 0.908 | chr19:19716558 | 19:19716558-C-T | 0.08989 | 0.07527 | 7.04E-01 | 1.213 | 0.082460164 |
| rs10401969 | rs73004951 | 287510 | 0.808 | chr19:19695228 | 19:19695228-C-T | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs10401969 | rs73004962 | 305351 | 0.808 | chr19:19713069 | 19:19713069-A-T | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs10401969 | rs16996185 | 313070 | 0.908 | chr19:19720788 | 19:19720788-T-G | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs10401969 | rs12610185 | 314004 | 0.908 | chr19:19721722 | 19:19721722-G-A | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs10401969 | rs10500212 | 315497 | 0.908 | chr19:19723125 | 19:19723125-C-T | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs58542926 | rs73004951 | 315679 | 0.803 | chr19:19695228 | 19:19695228-C-T | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs10401969 | rs73004975 | 319434 | 0.908 | chr19:19727152 | 19:19727152-A-G | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs58542926 | rs73004962 | 333520 | 0.803 | chr19:19713069 | 19:19713069-A-T | 0.08889 | 0.07527 | 7.05E-01 | 1.199 | 0.081968361 |
| rs10273639 | rs6667 | 3937 | 0.933 | chr7:142460865 | JHU_7.142460864 | 0.4888 | 0.4677 | 7.53E-01 | 1.088 | 0.478077049 |
| rs10273639 | rs10273639 | 0 | 1 | chr7:142456928 | a_rs10273639 | 0.4889 | 0.4731 | 8.34E-01 | 1.065 | 0.480870492 |
| rs10401969 | rs17217098 | 294666 | 0.808 | chr19:19702384 | 19:19702384-G-A | 0.07778 | 0.06989 | 8.43E-01 | 1.122 | 0.073770328 |
| rs10401969 | rs73004967 | 309338 | 0.808 | chr19:19717056 | 19:19717056-A-G | 0.07778 | 0.06989 | 8.43E-01 | 1.122 | 0.073770328 |
| rs58542926 | rs17217098 | 322835 | 0.803 | chr19:19702384 | 19:19702384-G-A | 0.07778 | 0.06989 | 8.43E-01 | 1.122 | 0.073770328 |
| rs58542926 | rs73004967 | 337507 | 0.803 | chr19:19717056 | 19:19717056-A-G | 0.07778 | 0.06989 | 8.43E-01 | 1.122 | 0.073770328 |
| rs10273639 | rs1811091 | 4620 | 1 | chr7:142461548 | JHU_7.142461547 | 0.4611 | 0.4516 | 9.17E-01 | 1.039 | 0.456272131 |
| rs10273639 | rs1985888 | 5644 | 0.931 | chr7:142462572 | JHU_7.142462571 | 0.4611 | 0.4516 | 9.17E-01 | 1.039 | 0.456272131 |
| rs10273639 | rs1969595 | 11263 | 0.842 | chr7:142468189 | JHU_7.142468188 | 0.4778 | 0.4731 | 1.00E+00 | 1.019 | 0.4754111475 |
| rs1010023 | rs1010023 | 0 | 1 | chr22:44336098 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs12165526 | rs12165526 | 0 | 1 | chr22:44361713 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs12484700 | rs12484700 | 0 | 1 | chr22:44327273 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs1883348 | rs1883348 | 0 | 1 | chr22:44331815 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs1977080 | rs1977080 | 0 | 1 | chr22:44330031 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs1977081 | rs1977081 | 0 | 1 | chr22:44330128 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2008451 | rs2008451 | 0 | 1 | chr22:44342969 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2072905 | rs2072905 | 0 | 1 | chr22:44333479 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2076211 | rs2076211 | 0 | 1 | chr22:44329078 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2235778 | rs2235778 | 0 | 1 | chr22:44389514 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2294433 | rs2294433 | 0 | 1 | chr22:44329275 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2294917 | rs2294917 | 0 | 1 | chr22:44341986 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2294921 | rs2294921 | 0 | 1 | chr22:44361842 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
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| rs34352134 | rs34352134 | 0 | 1 | chr22:44335416 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs34879941 | rs34879941 | 0 | 1 | chr22:44332878 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs3827385 | rs3827385 | 0 | 1 | chr22:44388817 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823108 | rs4823108 | 0 | 1 | chr22:44381340 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823109 | rs4823109 | 0 | 1 | chr22:44381482 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823173 | rs4823173 | 0 | 1 | chr22:44328730 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823176 | rs4823176 | 0 | 1 | chr22:44334476 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823177 | rs4823177 | 0 | 1 | chr22:44334486 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823178 | rs4823178 | 0 | 1 | chr22:44334529 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823179 | rs4823179 | 0 | 1 | chr22:44341193 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs56373884 | rs56373884 | 0 | 1 | chr22:44356468 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs6006602 | rs6006602 | 0 | 1 | chr22:44383400 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs626283 | rs626283 | 0 | 1 | chr19:54677001 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs73176497 | rs73176497 | 0 | 1 | chr22:44336957 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs738408 | rs738408 | 0 | 1 | chr22:44324730 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs738409 | rs738408 | 3 | 0.955 | chr22:44324730 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs35621602 | rs34352134 | 10 | 1 | chr22:44335416 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823176 | rs4823177 | 10 | 1 | chr22:44334486 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823177 | rs4823176 | 10 | 1 | chr22:44334476 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs6006468 | rs6006602 | 32 | 1 | chr22:44383400 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs13056638 | rs1883348 | 37 | 1 | chr22:44331815 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823177 | rs4823178 | 43 | 1 | chr22:44334529 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

| | | | | | | | | | | |
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| rs3747207 | rs738408 | 125 | 0.955 | chr22:44324730 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs1883349 | rs1883348 | 128 | 1 | chr22:44331815 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823108 | rs4823109 | 142 | 1 | chr22:44381482 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823109 | rs4823108 | 142 | 1 | chr22:44381340 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs626283 | rs8736 | 188 | 1 | chr19:54677189 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2076211 | rs2294433 | 197 | 1 | chr22:44329275 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2294433 | rs2076211 | 197 | 1 | chr22:44329078 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs1010022 | rs1010023 | 212 | 1 | chr22:44336098 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2896019 | rs2072905 | 215 | 1 | chr22:44333479 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs6006469 | rs6006602 | 217 | 1 | chr22:44383400 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2072907 | rs34879941 | 225 | 1 | chr22:44332878 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2294916 | rs4823179 | 271 | 0.843 | chr22:44341193 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2072906 | rs34879941 | 294 | 1 | chr22:44332878 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs1997693 | rs1883348 | 302 | 1 | chr22:44331815 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2072906 | rs2072905 | 307 | 1 | chr22:44333479 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2281135 | rs34879941 | 308 | 1 | chr22:44332878 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2073081 | rs34352134 | 328 | 1 | chr22:44335416 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2076211 | rs4823173 | 348 | 1 | chr22:44328730 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs4823173 | rs2076211 | 348 | 1 | chr22:44329078 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| rs2073081 | rs1010023 | 354 | 1 | chr22:44336098 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
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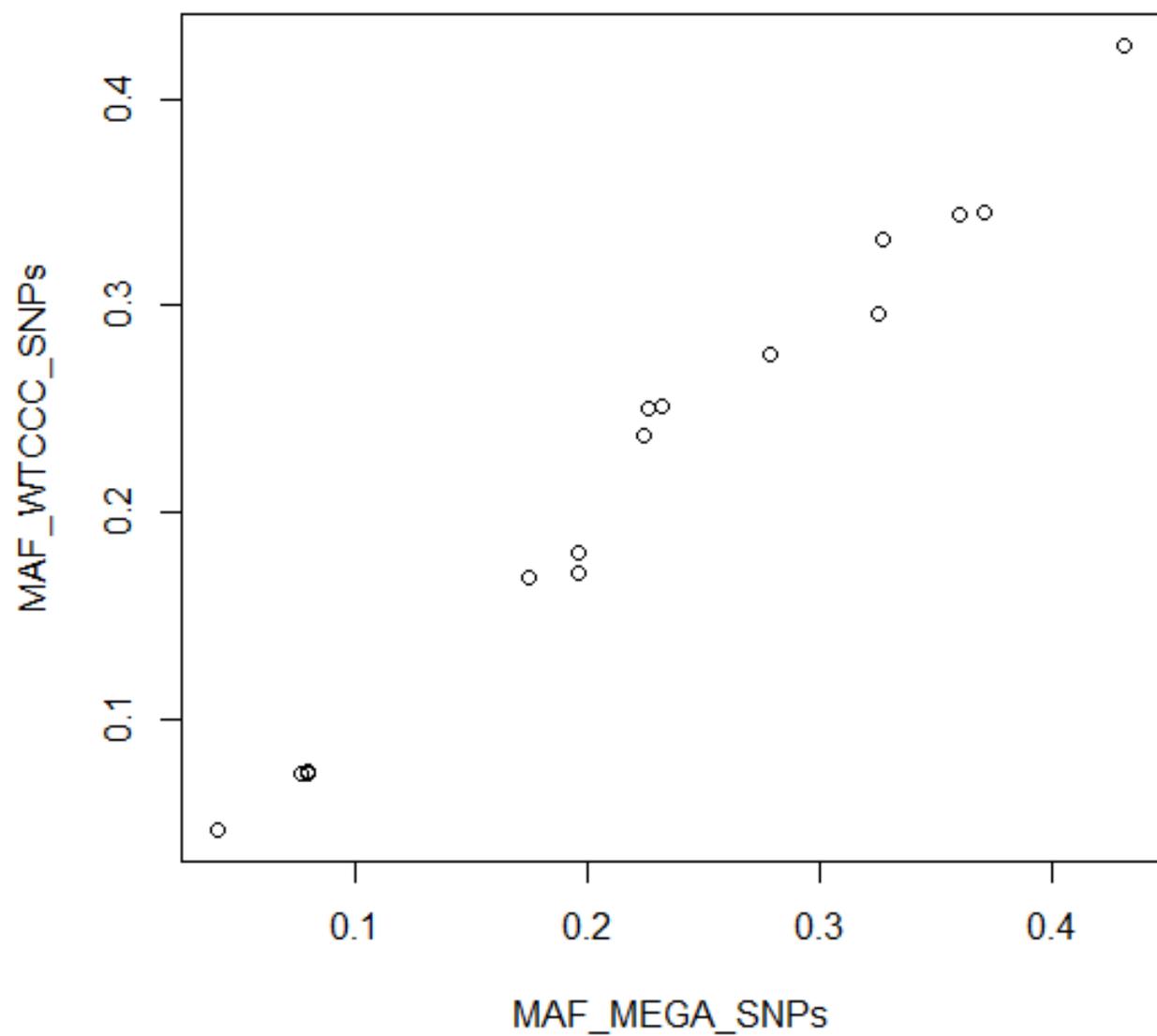
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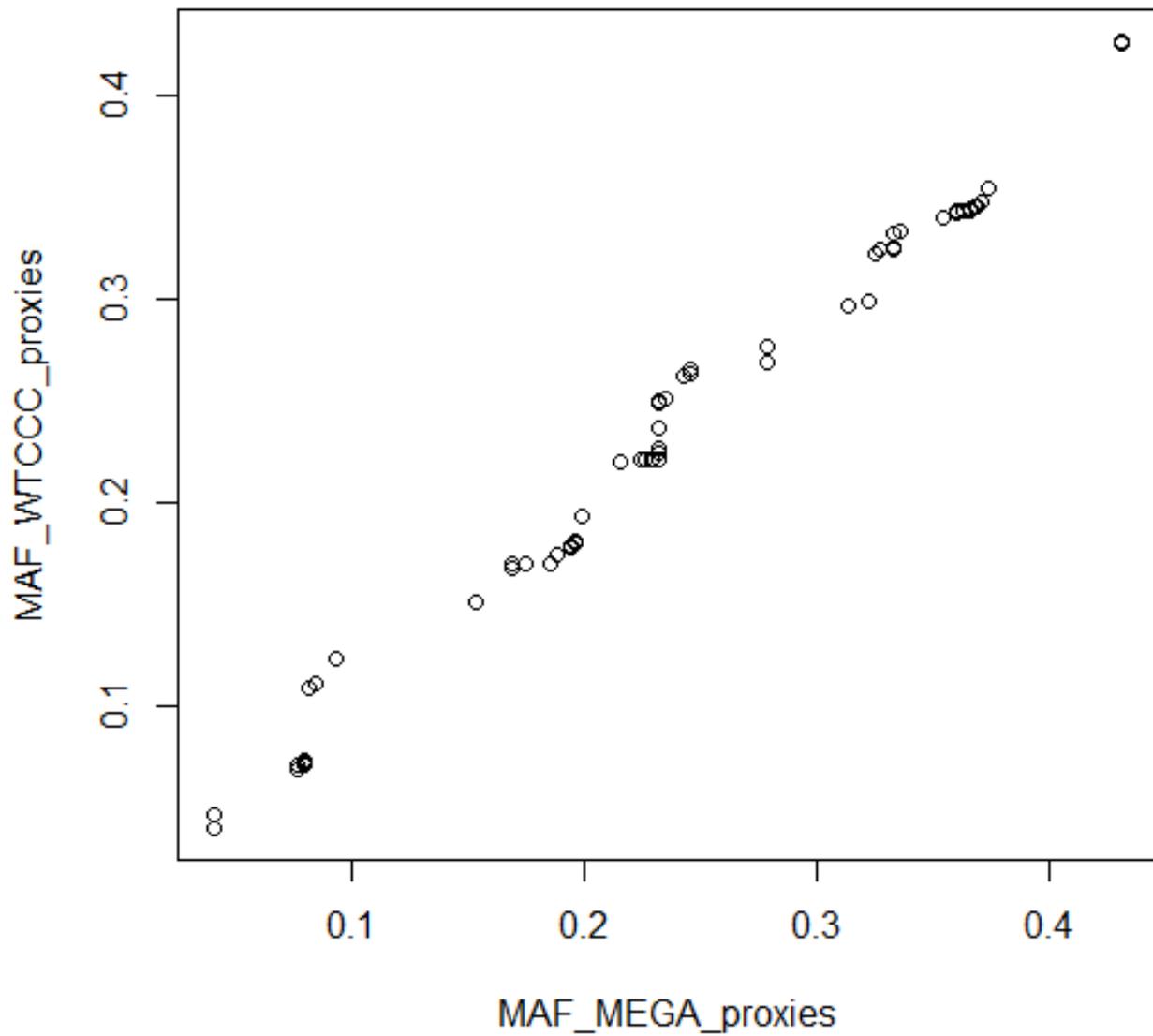
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Supplemental Digital Content 5



Supplemental Digital Content 6



Supplemental Digital Content 7

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| ENSG00000197748 | WDR96 | 0.001359729 | 21.79754601 |
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| ENSG00000184344 | GDF3 | 0.002238104 | 8.92033543 |
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| ENSG00000103335 | PIEZO1 | 0.002477231 | 5.308420057 |
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| ENSG00000110697 | PITPNM1 | 0.002901861 | 19.26666667 |
| ENSG00000116128 | BCL9 | 0.002901861 | 19.26666667 |
| ENSG00000124827 | GCM2 | 0.002901861 | 19.26666667 |
| ENSG00000133069 | TMCC2 | 0.002901861 | 19.26666667 |
| ENSG00000182634 | OR10G7 | 0.002901861 | 19.26666667 |
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| ENSG00000103197 | TSC2 | 0.004464588 | 8.043478261 |
| ENSG00000124615 | MOCS1 | 0.004464588 | 8.043478261 |
| ENSG00000167676 | PLIN4 | 0.004464588 | 8.043478261 |
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| ENSG00000110799 | VWF | 0.006153345 | 16.79640719 |
| ENSG00000114646 | CSPG5 | 0.006153345 | 16.79640719 |
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| ENSG00000106608 | URGCP | 0.008794467 | 7.188139059 |
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| ENSG00000007174 | DNAH9 | 0.016943555 | 4.773913043 |
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| ENSG00000078304 | PPP2R5C | 1 | 0.340699816 |
| ENSG00000078328 | RBFOX1 | 1 | 0.340699816 |
| ENSG00000078403 | MLLT10 | 1 | 1.033519553 |
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| ENSG00000079150 | FKBP7 | 1 | 0.340699816 |
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| ENSG00000082074 | FYB | 1 | 1.033519553 |
| ENSG00000082213 | C5orf22 | 1 | 0.340699816 |
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| ENSG00000083099 | LYRM2 | 1 | 0.340699816 |
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| ENSG00000084073 | ZMPSTE24 | 1 | 0.340699816 |
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| ENSG00000105085 | MED26 | 1 | 1.033519553 |
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| ENSG00000113790 | EHHADH | 1 | 0.340699816 |
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| ENSG00000116191 | RALGPS2 | 1 | 1.033519553 |
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| ENSG00000117228 | GBP1 | 1 | 1.033519553 |
| ENSG00000117266 | CDK18 | 1 | 0.340699816 |
| ENSG00000117298 | ECE1 | 1 | 1.033519553 |
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| ENSG00000122861 | PLAU | 1 | 1.033519553 |
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| ENSG00000123352 | SPATS2 | 1 | 1.033519553 |
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| ENSG00000123453 | SARDH | 1 | 0.340699816 |
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| ENSG00000135973 | GPR45 | 1 | 0.340699816 |
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| ENSG00000136059 | VILL | 1 | 0.613407821 |
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| ENSG00000136709 | WDR33 | 1 | 1.033898305 |
| ENSG00000136738 | STAM | 1 | 0.340699816 |
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| ENSG00000137207 | YIPF3 | 1 | 0.340699816 |
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| ENSG00000137434 | C6orf52 | 1 | 1.033519553 |
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| ENSG00000137747 | TMPRSS13 | 1 | 0.340699816 |
| ENSG00000137757 | CASP5 | 1 | 0.340699816 |
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| ENSG00000137831 | UACA | 1 | 0.613407821 |
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| ENSG00000138185 | ENTPD1 | 1 | 1.033519553 |
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| ENSG00000147419 | CCDC25 | 1 | 0.340699816 |
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| ENSG00000157224 | CLDN12 | 1 | 0.340699816 |
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| ENSG00000157426 | AASDH | 1 | 1.033898305 |
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| ENSG00000159917 | ZNF235 | 1 | 0.730427764 |
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| ENSG00000160214 | RRP1 | 1 | 0.613407821 |
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| ENSG00000160593 | AMICA1 | 1 | 1.033519553 |
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| ENSG00000160654 | CD3G | 1 | 1.033519553 |
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| ENSG00000160710 | ADAR | 1 | 0.340699816 |
| ENSG00000160712 | IL6R | 1 | 0.340699816 |
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| ENSG00000160753 | RUSC1 | 1 | 1.033519553 |
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| ENSG00000160868 | CYP3A4 | 1 | 0.340699816 |
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| ENSG00000161048 | NAPEPLD | 1 | 0.613407821 |
| ENSG00000161133 | USP41 | 1 | 1.033519553 |
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| ENSG00000162066 | AMDHD2 | 1 | 1.033519553 |
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| ENSG00000162494 | LRRC38 | 1 | 1.033519553 |
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| ENSG00000162592 | CCDC27 | 1 | 1.033898305 |
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| ENSG00000162614 | NEXN | 1 | 1.033519553 |
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| ENSG00000162739 | SLAMF6 | 1 | 0.340699816 |
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| ENSG00000165661 | QSOX2 | 1 | 1.033898305 |
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| ENSG00000172766 | NAA16 | 1 | 0.340699816 |
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| ENSG00000174177 | CTU2 | 1 | 0.613407821 |
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| ENSG00000174358 | SLC6A19 | 1 | 1.033519553 |
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| ENSG00000174720 | LARP7 | 1 | 1.034285714 |
| ENSG00000174738 | NR1D2 | 1 | 0.340699816 |
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| ENSG00000175352 | NRIP3 | 1 | 1.033519553 |
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| ENSG00000180815 | MAP3K15 | 1 | 1.033519553 |
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| ENSG00000181804 | SLC9A9 | 1 | 1.033519553 |
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| ENSG00000182685 | BRICD5 | 1 | 0.340699816 |
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| ENSG00000184735 | DDX53 | 1 | 0.340699816 |
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| ENSG00000184983 | NDUFA6 | 1 | 1.033519553 |
| ENSG00000184984 | CHRM5 | 1 | 1.033519553 |
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| ENSG00000185008 | ROBO2 | 1 | 0.613407821 |
| ENSG00000185013 | NT5C1B | 1 | 1.033898305 |
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| ENSG00000186038 | HTR3E | 1 | 0.340699816 |
| ENSG00000186094 | AGBL4 | 1 | 1.033519553 |
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| ENSG00000197106 | SLC6A17 | 1 | 1.033519553 |
| ENSG00000197128 | ZNF772 | 1 | 0.613407821 |
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| ENSG00000197790 | OR52M1 | 1 | 0.340699816 |
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| ENSG00000198018 | ENTPD7 | 1 | 1.033519553 |
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| ENSG00000198089 | SFI1 | 1 | 1.033898305 |
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| ENSG00000204033 | LRIT2 | 1 | 0.340699816 |
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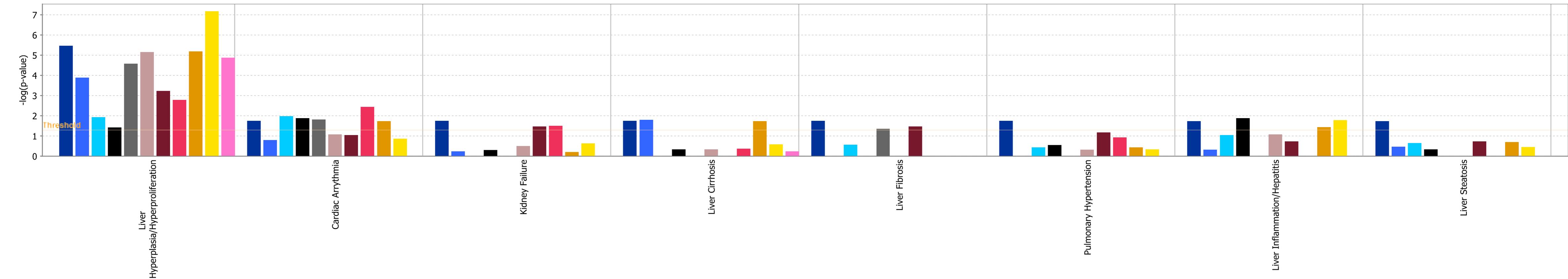
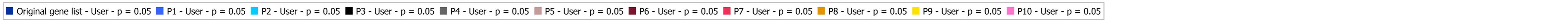
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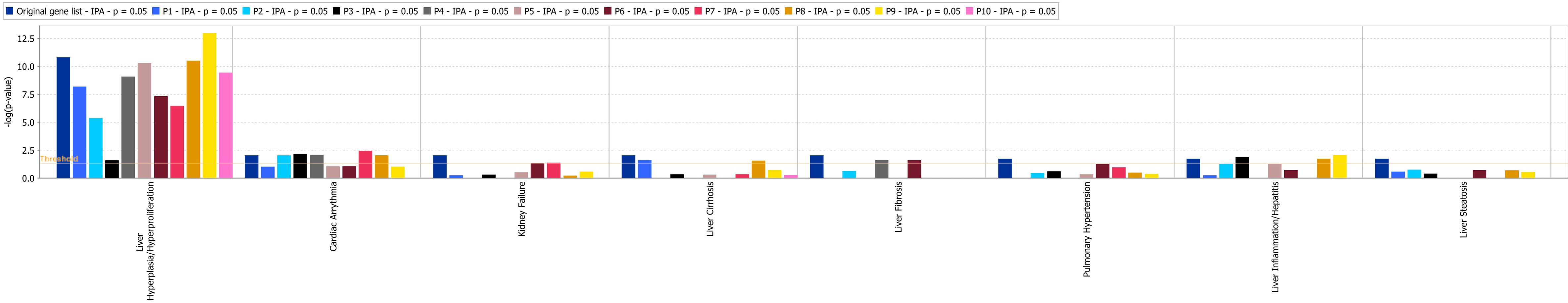
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Supplemental Digital Content 8

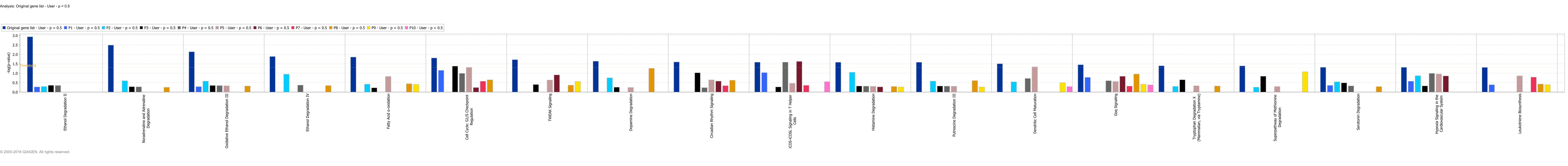
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Supplemental Digital Content 10



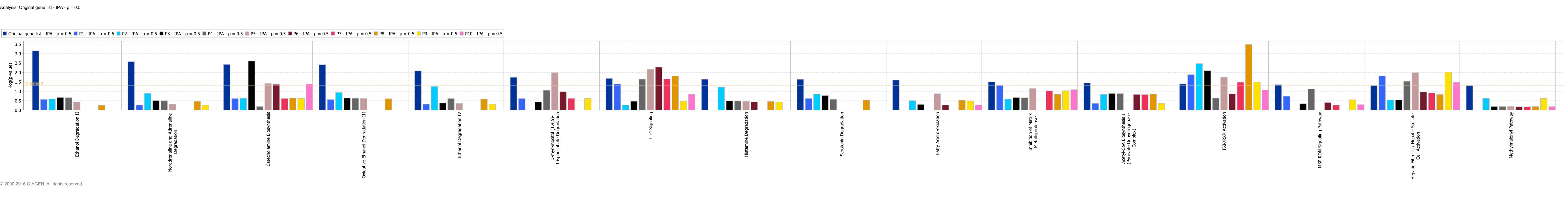
Supplemental Digital Content 11



Supplemental Digital Content 12

| Ethanol Degradation II (16/19) | Oxidative Ethanol Degradation III (9/10) | Ethanol Degradation IV (10/12) |
|---------------------------------------|---|---------------------------------------|
| <u>ACSS1</u> | <u>ACSS1</u> | <u>ACSS1</u> |
| ACSS2 | ACSS2 | ACSS2 |
| <u>ACSS3</u> | <u>ACSS3</u> | <u>ACSS3</u> |
| <u>ADH4</u> | <u>ALDH2</u> | <u>ALDH2</u> |
| <u>ADH6</u> | <u>ALDH1B1</u> | <u>ALDH1B1</u> |
| ADH1A | <u>ALDH3A1</u> | <u>ALDH3A1</u> |
| <u>ADH1B</u> | <u>ALDH3A2</u> | <u>ALDH3A2</u> |
| AKR1A1 | <u>ALDH3B1</u> | <u>ALDH3B1</u> |
| <u>ALDH2</u> | <u>ALDH7A1</u> | <u>ALDH7A1</u> |
| <u>ALDH1B1</u> | <u>ALDH9A1</u> | <u>ALDH9A1</u> |
| <u>ALDH3A1</u> | | CAT |
| <u>ALDH3A2</u> | | <u>TYRP1</u> |
| <u>ALDH3B1</u> | | |
| <u>ALDH7A1</u> | | |
| <u>ALDH9A1</u> | | |
| <u>DHRS2</u> | | |
| <u>DHRS4</u> | | |
| <u>DHRS9</u> | | |
| <u>PECR</u> | | |

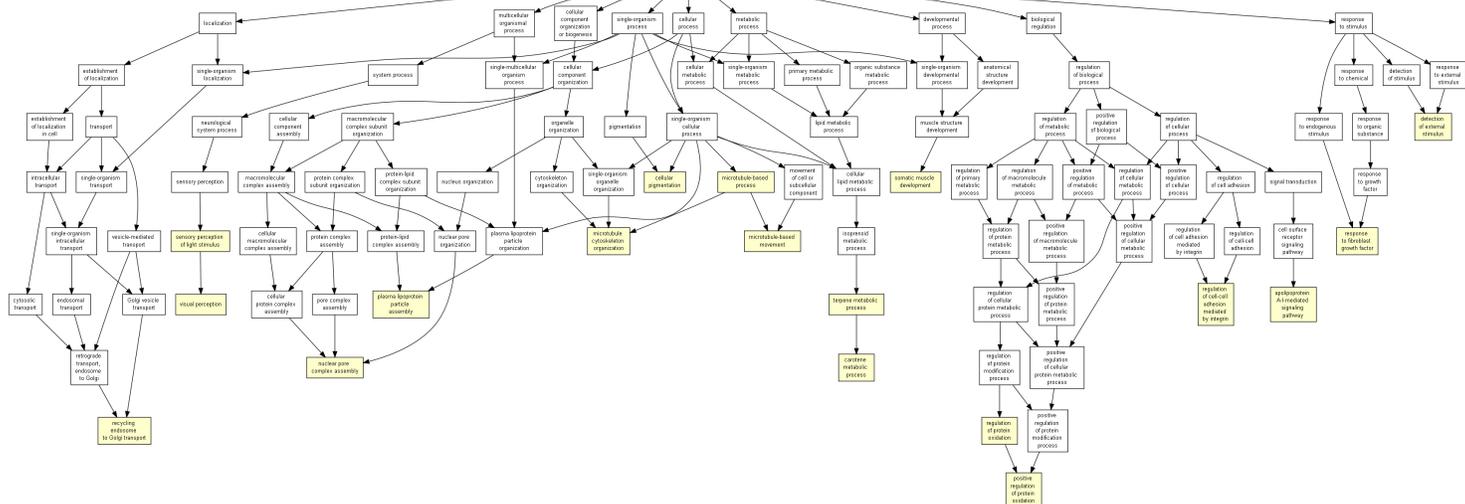
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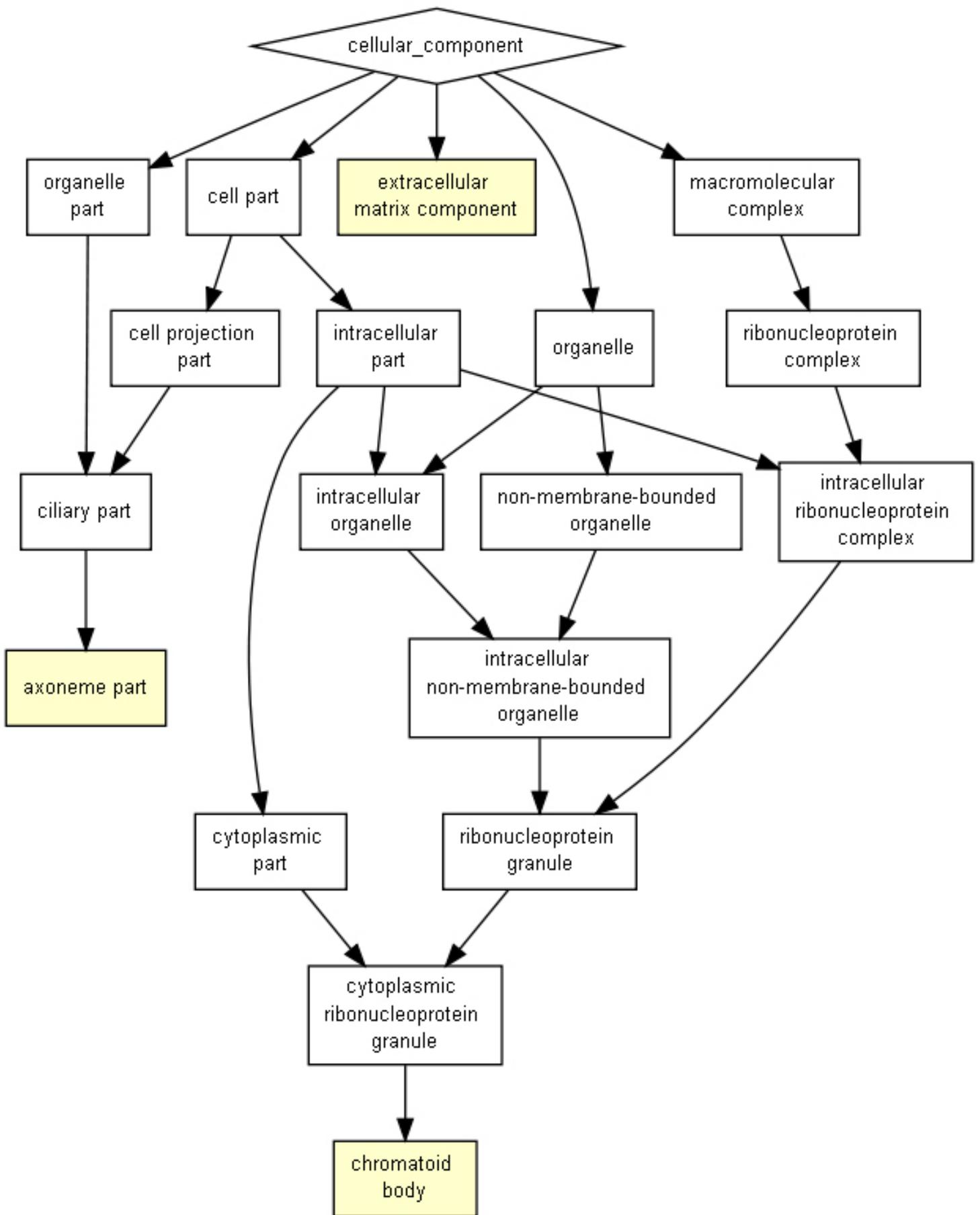
Supplemental Digital Content 14

Supplemental Digital Content 15

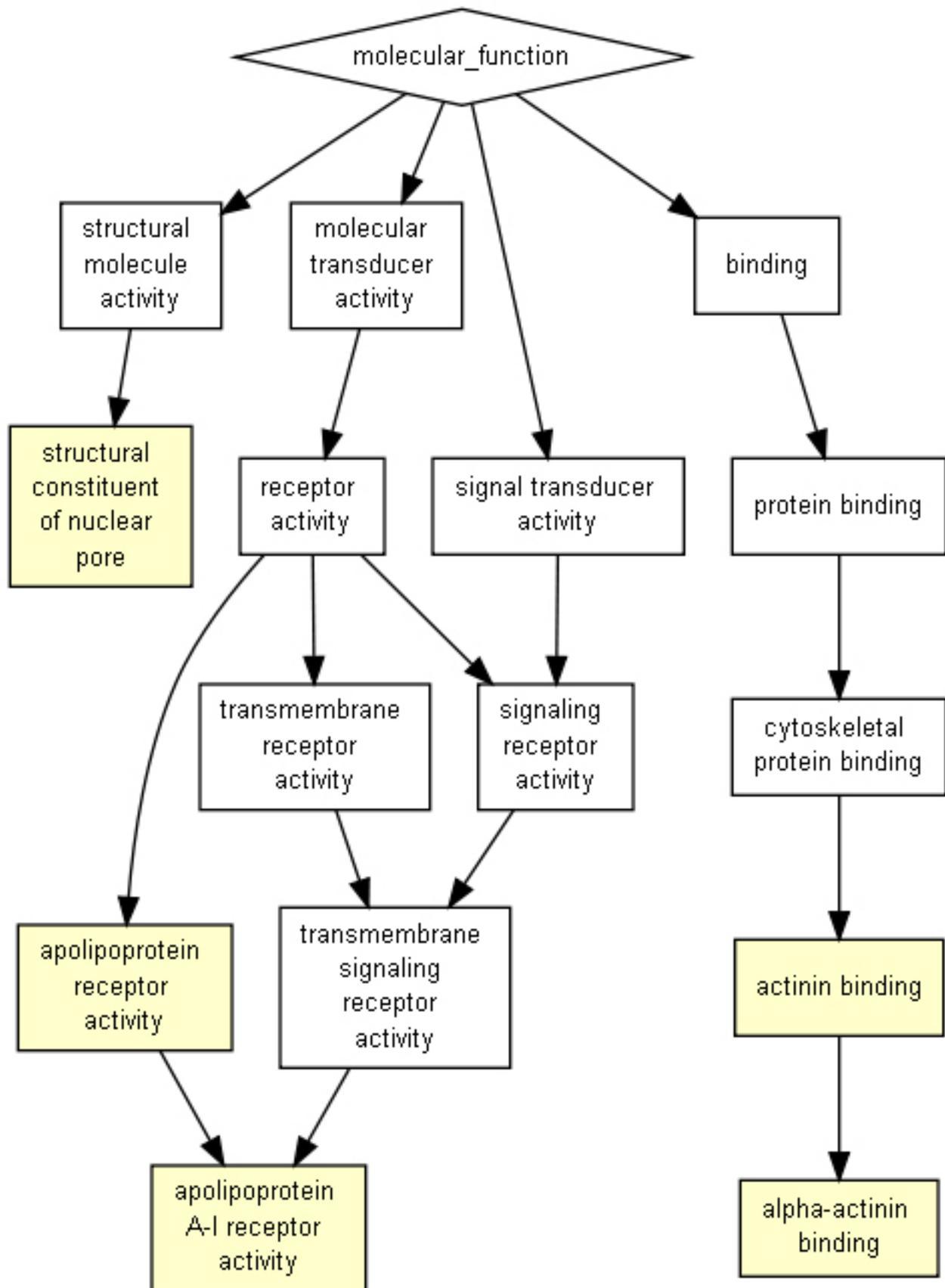
biological_process



Supplemental Digital Content 16



Supplemental Digital Content 17



Supplemental Digital Content 18

