

Table S6. Allele frequency of rs200988634 at *OTOA* from different datasets

Data	Technology	Population	Allele number	Allele frequency	Reference
Chinese psoriasis association samples (stage2, CHN in the paper)	panels	CHN	38,236	15.8%	(Tang et al. 2014; Sheng et al. 2014; Zhou et al. 2016; Zhen et al. 2019)
Chinese psoriasis association samples (stage1)	wes	CHN	2,562	19.4%	(Tang et al. 2014; Sheng et al. 2014; Zhou et al. 2016; Zhen et al. 2019)
BGI in-house database	wgs	CHN	1,748	18.0%	unpublished data
ExAC	wes	EAS	8,360	1.1%	(Exome Aggregation Consortium et al. 2016)
		worldwide	121,412	0.2%	(Exome Aggregation Consortium et al. 2016)
gnomAD	wes, wgs	EAS	16,068	1.0%	(Karczewski et al. 2020)
		worldwide	274,002	0.1%	(Karczewski et al. 2020)

wes: whole exome sequencing;

wgs: whole genome sequencing;

CHN: Chinese population;

EAS: East-Asian populations.