Supplement to Nair et al..
Localization of Psoriasis Susceptibility Locus PSORS1 to a 60 Kilobase Interval
Telomeric to HLA-C.

Comparison of risk haplotypes that match EH57.1 exactly at RH1 and/or RH2 (expanded sample)

Risk Haplotype	transmitted	not transmitted	% transmitted	p value
RH1 + RH2 (both)	150	41	78.5	3.1×10^{-15}
RH1 only	28	11	71.8	0.0065
RH2 only	6	9	40.0	0.44

Comparisons of risk haplotype groups	Pearson χ^2	p value
RH1 only vs. RH2 only	4.70	0.030
both vs. RH1 only	0.84	0.36
both vs. RH2 only	11.24	0.00080

This test would be predicted to be quite sensitive to the effects of residual genotyping errors, because only one mismatch could place a haplotype into the RH1 only or the RH2 only group. We therefore repeated the test for all perfect matches at RH1, requiring that RH2 mismatch the consensus at two or more positions in order to be scored as a recombinant. The same procedure was followed for all perfect matches at RH2. Under these conditions fewer recombinants were identified, and as a result the differences between groups were no longer significant. However, the transmission ratios remained essentially the same: the RH1 only group yielded a 20:10 T:NT ratio (66.7%), whereas the RH2 only group yielded a 2:4 T:NT ratio (33.3%).