

Reference genome release	Distinguishing contig	Contig length (bp)
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hs38DH_extra

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HLA-C*08:01:01	3349
HLA-C*08:01:03	2998
HLA-C*08:02:01:01	3349
HLA-C*08:02:01:02	3349
HLA-C*08:03:01	3349
HLA-C*08:04:01	2895
HLA-C*08:112	3178
HLA-C*08:20	3349
HLA-C*08:21	3349
HLA-C*08:22	3349
HLA-C*08:24	2895
HLA-C*08:27	3349
HLA-C*08:36N	3097
HLA-C*08:40	2978
HLA-C*08:41	3019
HLA-C*08:62	3086
HLA-C*12:02:02	3349
HLA-C*12:03:01:01	3349

HLA-C*12:03:01:02	3348
HLA-C*12:08	3066
HLA-C*12:13	3058
HLA-C*12:19	3349
HLA-C*12:22	2895
HLA-C*12:99	3349
HLA-C*14:02:01	3349
HLA-C*14:03	3349
HLA-C*14:21N	3099
HLA-C*14:23	2976
HLA-C*15:02:01	3349
HLA-C*15:05:01	3349
HLA-C*15:05:02	3349
HLA-C*15:13	2895
HLA-C*15:16	3066
HLA-C*15:17	3349
HLA-C*15:96Q	3349
HLA-C*16:01:01	3349
HLA-C*16:02:01	2895
HLA-C*16:04:01	3349
HLA-C*17:01:01:01	3368
HLA-C*17:01:01:02	3368
HLA-C*17:01:01:03	3368
HLA-C*17:03	3197
HLA-C*18:01	3346
HLA-DQA1*01:01:02	6489
HLA-DQA1*01:02:01:01	6484
HLA-DQA1*01:02:01:02	6485
HLA-DQA1*01:02:01:03	6485
HLA-DQA1*01:02:01:04	6492
HLA-DQA1*01:03:01:01	6485
HLA-DQA1*01:03:01:02	6492
HLA-DQA1*01:04:01:01	6484
HLA-DQA1*01:04:01:02	6485
HLA-DQA1*01:05:01	6485
HLA-DQA1*01:07	5959
HLA-DQA1*01:10	5790
HLA-DQA1*01:11	5926
HLA-DQA1*02:01	6403
HLA-DQA1*03:01:01	6437
HLA-DQA1*03:02	6437
HLA-DQA1*03:03:01	6437
HLA-DQA1*04:01:02:01	5853
HLA-DQA1*04:01:02:02	5666
HLA-DQA1*04:02	6210
HLA-DQA1*05:01:01:01	5806
HLA-DQA1*05:01:01:02	6529
HLA-DQA1*05:03	6121
HLA-DQA1*05:05:01:01	6593

HLA-DQA1*05:05:01:02	6597
HLA-DQA1*05:05:01:03	6393
HLA-DQA1*05:11	6589
HLA-DQA1*06:01:01	5878
HLA-DQB1*02:01:01	7480
HLA-DQB1*02:02:01	7471
HLA-DQB1*03:01:01:01	7231
HLA-DQB1*03:01:01:02	7230
HLA-DQB1*03:01:01:03	7231
HLA-DQB1*03:02:01	7126
HLA-DQB1*03:03:02:01	7126
HLA-DQB1*03:03:02:02	7126
HLA-DQB1*03:03:02:03	6800
HLA-DQB1*03:05:01	6934
HLA-DQB1*05:01:01:01	7090
HLA-DQB1*05:01:01:02	7090
HLA-DQB1*05:03:01:01	7089
HLA-DQB1*05:03:01:02	7089
HLA-DQB1*06:01:01	7111
HLA-DQB1*06:02:01	7102
HLA-DQB1*06:03:01	7103
HLA-DQB1*06:09:01	7102
HLA-DRB1*01:01:01	10741
HLA-DRB1*01:02:01	11229
HLA-DRB1*03:01:01:01	13908
HLA-DRB1*03:01:01:02	13426
HLA-DRB1*04:03:01	15246
HLA-DRB1*07:01:01:01	16110
HLA-DRB1*07:01:01:02	16120
HLA-DRB1*08:03:02	13562
HLA-DRB1*09:21	16039
HLA-DRB1*10:01:01	13501
HLA-DRB1*11:01:01	13921
HLA-DRB1*11:01:02	13931
HLA-DRB1*11:04:01	13919
HLA-DRB1*12:01:01	13404
HLA-DRB1*12:17	11260
HLA-DRB1*13:01:01	13935
HLA-DRB1*13:02:01	13941
HLA-DRB1*14:05:01	13933
HLA-DRB1*14:54:01	13936
HLA-DRB1*15:01:01:01	11080
HLA-DRB1*15:01:01:02	11571
HLA-DRB1*15:01:01:03	11056
HLA-DRB1*15:01:01:04	11056
HLA-DRB1*15:02:01	10313
HLA-DRB1*15:03:01:01	11567
HLA-DRB1*15:03:01:02	11569
HLA-DRB1*16:02:01	11005

GRCh38_no_alt_plus-hs38d1 is differentiated by 2313 decoy contigs not present in the original release of GRCh38. They contain unlocalized and unplaced scaffolds from the GRCh38 Primary Assembly unit (NCBI 2022v2). hs38dh_extra, in addition to decoy, has multiple alleles of HLA genes as ALT contigs. These genomic sequences are key to represent the high sequence divergence between the HLA complex and the reference genome in these regions (Li 2013). The length of all the HLA contigs is similar, as they represent the same localization. Therefore, differentiation by length is not possible for this particular flavor. It is noteworthy that hs38dh_extra identification is the sole flavor that depends on the nomenclature of the contigs.