

Supplementary data 6. Differentiated expression of haem-related genes between *P. falciparum* 3D7C580Y and *P. falciparum* 3D7WT

haem-related genes	0 h	6 h	12 h	18 h	24 h	30 h	36 h	42 h
PF3D7_1219900	0.835364	1.610307	0.6815115	0.898884	0.896744	0.93013768	1.164843	2.008195
PF3D7_1434500	0.5566469	0.636897	0.8927804	0.89807	0.915614	1.57679521	1.737776	0.641477
PF3D7_0206100	1.0512399	1.089349	1.1663058	0.892117	1.014028	1.26753033	0.99239	1.049575
PF3D7_1119600	1.0144927	1.03936	1.0528826	0.892015	1.007809	1.23205316	1.755069	1.319675
PF3D7_0818900	1.0359159	1.154376	0.8733916	0.89029	0.954305	1.08809159	1.580479	0.703155
PF3D7_1364300	1.1422992	1.004166	0.9139206	0.889041	1.104758	1.18896967	0.973578	0.864385
PF3D7_0610800	0.9447196	1.001036	0.7943666	0.887715	1.013506	1.30902234	1.360394	0.563671
PF3D7_1352100	0.8686806	1.243329	0.8500004	0.877095	1.154237	1.40287267	0.625225	1.513103
PF3D7_1462800	1.1112012	0.825881	0.7136874	0.876622	0.881241	0.98054094	2.029022	0.946873
PF3D7_0703100	0.370192	1.015571	1.309581	0.875706	0.807443	3.6685227	1.446776	0.440797
PF3D7_1324900	1.1874039	0.855221	0.9442749	0.874519	0.936942	1.26557559	1.971999	1.151058
PF3D7_1404100	0.9469608	0.903039	0.7166693	0.872713	1.019274	1.15982724	1.72636	1.854984
PF3D7_0416700	1.0506176	1.130624	0.8111386	0.872457	0.860019	0.82590873	1.436291	1.704592
PF3D7_1349200	0.8997996	1.084536	0.9778747	0.869184	1.062642	1.20675447	1.602948	0.520996
PF3D7_0903400	0.6307635	0.574383	0.7438232	0.861906	1.113318	1.12778517	1.358435	0.50368
PF3D7_0814900	0.8897096	0.842751	0.9143543	0.861767	0.881681	0.93347013	1.138742	1.931613
PF3D7_0521700	1.2646536	1.29888	0.9544838	0.861629	0.938701	1.00561866	2.44022	0.648828
PF3D7_1106000	0.7815024	1.079948	0.8332488	0.859171	0.996616	1.15071142	1.413615	0.664009
PF3D7_1035400	0.8173384	0.523869	0.5693457	0.857301	0.645578	0.6479255	0.553495	1.369136
PF3D7_0909900	0.848038	0.957612	0.932677	0.845094	0.861237	1.04706892	1.272828	0.731664
PF3D7_1435300	0.5859173	0.551558	0.6685749	0.839384	0.691253	0.84568317	0.912123	1.45565
PF3D7_1429900	0.6337175	1.030269	0.8435748	0.829643	0.929177	1.12785849	1.103429	1.648599
PF3D7_0515800	1.1345341	1.982435	1.3401889	0.827245	0.853967	1.05188483	0.867238	1.268
PF3D7_1464600	0.7015661	0.726393	0.7257883	0.824333	1.134852	1.06029745	0.428903	0.9111
PF3D7_1412700	0.5523534	0.892401	1.0326307	0.819097	0.979009	1.36401116	2.371294	1.450775
PF3D7_0310500	0.6450374	0.694157	0.8116722	0.816449	0.969496	1.04898066	1.613733	1.497431
PF3D7_0707400	0.8509916	1.12358	0.8652381	0.814195	1.062071	1.34009798	1.721608	1.123551
PF3D7_0411400	0.7584381	0.92534	0.8221245	0.813324	0.925185	1.67490072	1.950042	1.709284
PF3D7_1227100	0.7605429	1.095535	0.8063799	0.808927	1.006324	1.24337056	1.674841	1.491197
PF3D7_1216200	0.9584843	0.9783	0.8720787	0.808556	1.077959	1.29135923	0.802132	1.207598
PF3D7_0705600	0.7109927	0.851414	0.9228295	0.805094	0.959447	1.33728868	2.320869	1.135805
PF3D7_1021500	0.5575614	0.867547	1.0987145	0.797228	1.165234	0.99365078	1.477175	0.789214
PF3D7_1307300	0.830752	0.764599	0.9082942	0.796461	0.971049	1.27459096	1.361767	0.93207
PF3D7_1246100	0.6035375	1.288695	0.4797443	0.795898	1.011003	1.27682116	1.549314	1.224024
PF3D7_0708700	1.7523535	1.265799	1.6313997	0.791325	0.834839	0.95443585	1.204048	2.017167
PF3D7_1144600	0.8055964	0.792375	0.9457397	0.788514	1.049196	0.96923478	1.188622	0.855846
PF3D7_1209400	0.4902773	0.552154	0.3632055	0.785699	0.94683	1.65030422	0.430272	1.073321
PF3D7_0614200	0.7575213	0.858454	0.972194	0.784885	0.864834	1.2178229	1.418382	0.723303
PF3D7_0104400	0.8326474	1.03518	0.6900698	0.783571	0.957685	1.0560178	1.377392	1.634308
PF3D7_1011900	0.5347392	0.61992	1.067819	0.783075	0.833795	0.7118761	0.866762	2.13264
PF3D7_0614800	0.5093093	0.491597	0.6325748	0.772207	0.987431	1.15690169	1.154258	1.682591
PF3D7_1357500	0.8252476	0.760316	0.9113263	0.765381	0.879586	0.93686604	0.932029	1.834441
PF3D7_0720400	0.8900654	1.259764	0.8983185	0.753572	0.911667	1.16740424	1.393224	1.308451
PF3D7_0925900	0.9754749	1.089504	1.1796099	0.748745	1.115344	1.40335039	0.863386	0.635807
PF3D7_0522700	820.17	0.809924	5.0951496	0.735218	0.713358	0.85686793	1.716144	1.732392
PF3D7_1239700	0.6325323	0.708274	0.5496686	0.733348	0.857245	0.86307362	1.592089	1.720237
PF3D7_1439100	0.4760274	0.49578	0.8035896	0.731899	1.005613	0.90798138	1.705956	0.932194
PF3D7_1357200	2.6469236	0.957352	0.8943424	0.727039	0.876755	0.86190284	1.43981	1.809304
PF3D7_1457500	1.1579154	0.504936	1.0675661	0.725908	0.856643	1.0267585	0.806123	1.939687
PF3D7_0918600	0.3369458	1.063308	0.8642303	0.724466	0.907697	0.89048911	1.349258	1.936495
PF3D7_1344600	0.4827812	0.453849	2.0057895	0.715216	0.672039	0.966086	1.255384	1.955239
PF3D7_1223700	0.8618848	0.908071	0.7146563	0.713466	0.936935	0.92235025	1.330709	1.66119
PF3D7_1421100	1.091003	1.104194	1.106057	0.712983	1.352993	0.88021123	0.94153	0.486542
PF3D7_0716600	0.6325581	0.69314	0.5228348	0.709522	0.90712	0.94304687	1.332374	1.887951

PF3D7_1115700	0.7806968	1.211573	0.6655292	0.709467	1.353968	1.75185945	0.650307	0.954789
PF3D7_1345700	0.8642484	0.83907	0.7893449	0.705234	0.863327	0.95486481	1.33673	1.734612
PF3D7_1134000	0.8367128	0.763732	0.8345018	0.705014	1.040134	1.50075453	1.93848	1.255752
PF3D7_0910800	0.8244232	1.552638	1.1600837	0.696367	1.01046	0.92817242	1.168935	2.419899
PF3D7_1103900	0.2922367	0.181505	0.898339	0.696186	1.486418	1.71741965	14.0782	0.000316
PF3D7_0810600	0.6833718	0.778913	0.8874762	0.694747	1.03625	1.48477006	1.868392	0.620354
PF3D7_1325200	0.7824893	0.787011	0.9373021	0.693566	0.833167	0.9910383	1.217739	0.924565
PF3D7_0407900	0.924925	1.242226	0.9213039	0.690151	0.953942	1.01969279	0.377138	0.949029
PF3D7_1212800	0.8080654	0.842172	0.9892301	0.688234	0.708831	0.77777501	1.000403	1.802267
PF3D7_0927300	0.6557094	0.84928	0.4298783	0.687008	0.690219	0.7775653	1.10621	1.959265
PF3D7_1440200	1.2995878	19.89913	0.5332696	0.684895	0.871234	1.25135349	1.743549	1.100887
PF3D7_1246500	0.7588429	1.188872	0.9753147	0.679525	1.002508	1.45820223	1.584547	0.855329
PF3D7_0907900	1.4152908	1.584651	0.9731575	0.675239	0.85655	0.95174741	1.413428	1.833806
PF3D7_0622600	0.4560188	0.633329	0.8658267	0.670662	0.704576	0.71254788	0.794556	2.567218
PF3D7_0103600	0.4503416	0.789504	1.1956065	0.67036	1.040368	1.1795635	1.369007	1.585686
PF3D7_1015600	0.6802503	0.726554	0.4360214	0.655243	1.042557	1.53827098	1.611777	1.602864
PF3D7_0321600	0.3154532	0.821575	0.654152	0.648734	0.966601	0.94556824	1.025017	1.6796
PF3D7_0829400	0.4146707	0.726548	2.0385091	0.648301	0.624092	0.87894968	1.076583	1.771504
PF3D7_1408400	0.5827663	0.802087	0.8186109	0.640966	0.91701	1.01277393	0.820592	1.520263
PF3D7_0925400	0.7511056	1.331991	0.6565455	0.639011	1.043667	1.12863659	1.626225	1.545853
PF3D7_1318100	0.8664843	0.973578	0.78947	0.627831	0.797461	0.86756162	1.466859	2.032997
PF3D7_1452200	0.6353277	0.708679	3.003122	0.621834	0.783577	0.67246509	1.008342	1.058118
PF3D7_1128500	0.7668888	1.16402	0.9262633	0.615254	1.082276	1.00522009	1.727627	0.589117
PF3D7_0322500	0.504017	0.71317	0.9059235	0.614901	1.289661	0.80638092	0.918278	2.183214
PF3D7_0502800	0.935636	0.706285	0.9445713	0.614343	0.947664	1.41186528	2.186855	0.257828
PF3D7_1458400	0.7139959	0.496505	0.8041582	0.612139	1.019124	0.98452608	1.50012	1.494649
PF3D7_0606900	0.9624245	0.877935	0.9282007	0.611359	0.877983	0.86901061	0.996074	0.825224
PF3D7_0416300	1.1445728	0.093548	0.6252441	0.599729	0.795056	0.93041302	1.518113	1.81511
PF3D7_1361600	0.126382	0.40951	1.1354971	0.591168	0.731854	0.85038232	0.831602	1.931799
PF3D7_0504200	0.5492388	0.236432	0.8770096	0.590794	0.873877	1.14587182	0.835809	1.535786
PF3D7_1103400	0.7678012	0.900578	0.7152141	0.590734	0.876402	1.11744246	1.673566	1.751466
PF3D7_0216000	0.550582	0.53526	0.555368	0.570453	0.577547	1.141524	1.189649	1.629542
PF3D7_0107800	0.4616213	0.229041	0.7166388	0.567375	0.869097	1.07353582	1.580131	2.039785
PF3D7_0320800	2.1200086	0.772996	0.6815682	0.565985	0.83896	1.07757502	1.609691	1.801454
PF3D7_1439400	1.0318247	0.941316	1.1458425	0.564457	0.66258	0.78211094	1.094332	1.853179
PF3D7_0711000	1.1155948	1.02741	0.6966926	0.563753	0.969755	1.14658355	1.73475	1.401832
PF3D7_1106600	0.5071777	0.678648	1.080694	0.55838	0.887769	1.60145999	1.747885	0.901541
PF3D7_0604600	0.3867932	0.826191	2.5055445	0.555849	0.859242	1.38048698	1.208035	1.06239
PF3D7_0304500	1.002452	0.960911	0.3468193	0.555789	0.963519	1.14030251	1.512559	1.651067
PF3D7_1239500	1.8154845	0.747954	1.0614148	0.552412	0.923449	0.86315865	1.33849	1.592152
PF3D7_1426900	1.7932352	0.683475	0.3085677	0.54652	0.683442	0.8513904	1.097729	2.096387
PF3D7_1467300	1.2785336	0.641025	1.9059658	0.54452	0.691307	0.80872597	1.337004	1.824588
PF3D7_1425400	0.5411451	0.462968	0.6285484	0.526298	1.084227	1.11250053	0.568309	1.323669
PF3D7_0302700	1.8120249	1.140958	1.1452605	0.515686	0.72926	0.83131647	1.255007	2.037269
PF3D7_1112600	0.2068513	0.858546	0.830071	0.503659	0.815884	0.97745728	1.041872	1.82219
PF3D7_0913900	0.5484232	2.455988	0.6960076	0.503602	1.02857	1.11468387	1.112069	0.683416
PF3D7_0729900	0.8105261	0.388281	0.9329289	0.496663	0.672735	0.75081113	1.139608	1.683015
PF3D7_1355100	0.6835637	0.716163	0.7059326	0.493372	0.808484	0.86754837	1.364773	1.947292
PF3D7_1037500	0.6562381	0.855245	0.251492	0.463951	0.925738	1.00502572	0.627786	1.504013
PF3D7_0519300	0.875473	0.697464	0.8047532	0.463626	0.81709	1.02375396	1.824299	1.407135
PF3D7_0623700	0.2818109	0.968247	0.9636775	0.461194	0.948971	1.1633793	1.544096	1.623965
PF3D7_1324500	0.3543795	0.750263	2.5409418	0.457345	0.828387	1.0299848	1.513643	1.899709
PF3D7_0509100	0.6708379	0.752736	0.9262388	0.456633	0.660806	0.98685628	1.667122	1.90293
PF3D7_1435000	0.3114006	0.739644	0.3331429	0.452934	0.686474	1.0015624	1.150793	2.065191
PF3D7_0514100	0.4278065	0.848037	0.9383238	0.450786	0.92592	0.94205079	1.188278	2.180006
PF3D7_0930900	1	0.332571	0.6042397	0.440584	1.526981	1.05745895	1.508167	2.711743
PF3D7_0817100	0.5879392	2.583344	0.8826972	0.434596	0.91644	1.4591056	1.615588	1.663957
PF3D7_1034400	0.8055017	0.926422	0.4298703	0.43311	0.815667	1.04339845	1.503016	1.781299

PF3D7_0508200	0.4450762	0.345025	0.5478531	0.429669	0.809172	0.89553705	1.420105	2.079456
PF3D7_0409500	0.7739371	0.572717	0.7237889	0.428584	0.555567	0.92415953	1.612446	2.142993
PF3D7_0527000	0.9122804	0.733018	0.639472	0.427529	0.760965	0.86319439	1.478837	1.903875
PF3D7_0504400	0.6191514	0.514949	0.3069561	0.421172	0.781003	0.91509099	1.557531	2.384776
PF3D7_1017000	0.923377	0.964406	0.5700223	0.417696	0.785636	1.02884776	1.701652	1.751573
PF3D7_1406900	0.0003074	2.162288	4.1264652	0.416616	1.158273	1.13966721	0.973638	1.979329
PF3D7_1019800	3.6251475	1.127474	0.5539579	0.416344	0.869793	1.08954355	0.992226	1.530586
PF3D7_1022800	1.3558632	0.439565	0.4336873	0.414335	0.643822	0.92355816	1.357794	1.780072
PF3D7_1446800	1.6596268	0.850757	1.3131873	0.407164	0.915826	1.11966342	1.153801	1.963006
PF3D7_1122900	0.7207131	0.613682	1.0415149	0.393725	0.715915	1.51986526	2.511688	0.635281
PF3D7_1417800	0.6402624	0.687072	0.4742099	0.38526	0.762409	0.87030164	1.420671	1.883493
PF3D7_1444700	0.3140579	0.673851	0.5359813	0.376901	0.756043	0.91765926	1.77388	1.989046
PF3D7_0607300	0.6188912	0.447778	0.9746116	0.372784	0.60158	1.0225835	1.392166	1.540741
PF3D7_1317100	0.7674139	1.319865	0.8167938	0.371416	0.730038	0.88753434	1.347097	1.910713
PF3D7_1462700	0.4451557	0.957232	0.3948324	0.370348	0.753603	0.88565833	1.433387	1.770682
PF3D7_1022900	0.0001187	1.694896	0.0001352	0.365836	0.788124	0.83603618	1.257241	1.69007
PF3D7_0705400	0.7383954	1.300116	0.7406025	0.361967	0.720944	0.72128829	1.234927	1.895555
PF3D7_0511200	0.5420265	0.518905	0.7039765	0.361624	0.532159	0.70200424	1.279668	2.190231
PF3D7_1364600	0.506421	0.95488	0.6784323	0.360089	0.722757	0.79172661	1.376268	1.836038
PF3D7_1211700	1.0188613	0.758566	0.9592379	0.357813	0.702783	0.74283118	1.256617	1.985683
PF3D7_1363700	0.3355451	0.209897	0.1124685	0.336566	0.902721	0.95160711	1.410476	1.505057
PF3D7_0716500	0.3885882	0.755904	0.6282656	0.32575	0.937407	1.21254933	1.512805	1.28505
PF3D7_0207200	0.0017224	0.000126	1	0.315121	0.8416	0.97206091	0.312449	1.200125
PF3D7_0630300	0.3480139	0.238084	0.6777809	0.296342	0.782024	0.89960119	1.590973	1.841276
PF3D7_1413500	1.3564205	1.27787	1.1160329	0.289735	0.73848	0.79908941	1.134306	1.870313
PF3D7_0809700	1.7025183	0.96119	0.3742233	0.287282	1.400311	0.75026107	1.154631	1.230747
PF3D7_1022300	0.0003244	2.639577	5.8255943	0.271629	0.422344	1.37070967	0.782514	3199.52
PF3D7_1403700	0.5447927	0.608678	0.3705202	0.203447	0.836146	1.19175693	1.142549	1.363348
PF3D7_0910900	0.760744	2.199046	0.108967	0.166506	0.616436	0.96443527	1.60542	2.044795
PF3D7_0922400	0.1902677	0.225394	0.883989	0.116009	0.723945	1.35560345	1.608617	1.56468
PF3D7_1014000	1.4343909	0.239625	1	0.001398	0.667144	0.95703812	0.769517	1.626219
PF3D7_1139500	0.9306921	0.335575	0.1517598	0.000846	0.699059	1.19604914	0.700204	0.983057
PF3D7_0921400	1	1.566781	1	0.000542	1.091279	1.03319636	1.060859	3.198611
PF3D7_1114800	0.0004843	0.765573	0.0001314	0.000338	0.328314	0.67074074	1.04948	2.154734
PF3D7_1232300	1	3.057482	0.0003184	0.000152	0.697318	0.95573701	2.119388	2.25261