

Table 3.4: Partial Correlation Value w_{ij} of VSP-2 Genes i to j (Supplemental File 4)

	VC0490	VC0491	VC0492	VC0493	VC0494	VC0495	VC0496	VC0497	VC0498	VC0502	VC0503	VC0504
VC0490	1	0.035	0.381	0.021	-0.067	0.071	0.032	-0.016	-0.124	-0.05	-0.033	0.011
VC0491	0.035	1	0.426	-0.021	-0.001	-0.008	0.014	0.008	0.014	-0.019	0.004	0
VC0492	0.381	0.426	1	0.027	0.006	0.003	0.013	0.004	0.004	0.01	-0.013	-0.021
VC0493	0.021	-0.021	0.027	1	0.008	-0.007	0.062	0.006	0.02	0.003	0.018	0.195
VC0494	-0.067	-0.001	0.006	0.008	1	0.656	0.084	0.008	-0.11	-0.022	0.03	-0.028
VC0495	0.071	-0.008	0.003	-0.007	0.656	1	0.104	0.118	0.085	-0.007	-0.009	0.02
VC0496	0.032	0.014	0.013	0.062	0.084	0.104	1	0.009	0.031	-0.039	-0.008	0.102
VC0497	-0.016	0.008	0.004	0.006	0.008	0.118	0.009	1	-0.058	-0.043	0.028	-0.004
VC0498	-0.124	0.014	0.004	0.02	-0.11	0.085	0.031	-0.058	1	-0.014	-0.028	0.028
VC0502	-0.05	-0.019	0.01	0.003	-0.022	-0.007	-0.039	-0.043	-0.014	1	0.088	0.013
VC0503	-0.033	0.004	-0.013	0.018	0.03	-0.009	-0.008	0.028	-0.028	0.088	1	-0.018
VC0504	0.011	0	-0.021	0.195	-0.028	0.02	0.102	-0.004	0.028	0.013	-0.018	1
VC0505	-0.011	0.003	0.013	0.097	-0.02	0.017	0.108	0.018	-0.022	-0.004	-0.007	0.389
VC0506	-0.006	0.001	0.002	-0.004	-0.026	0.024	0.045	0.018	-0.005	0.01	0.064	0.09
VC0507	-0.018	0.009	0.035	0.179	-0.003	0.009	0.03	-0.011	0.005	-0.01	-0.003	0.369
VC0508	0.053	0.007	-0.002	-0.029	0.028	0.111	0.073	0.06	0.017	0.123	0.098	0.003
VC0509	0.012	-0.001	-0.023	0.037	0.057	-0.02	0.216	0.023	0.058	0.095	-0.022	0.161
VC0510	0.015	0.011	0.001	-0.012	0.049	0.067	-0.005	0.085	0.064	0.128	0.174	-0.004
VC0512	-0.015	-0.006	0	0.004	-0.006	0.028	0.041	0.037	0.012	0.154	0.1	-0.002
VC0513	0.001	0.01	0.004	0.03	-0.013	-0.007	0.049	-0.008	-0.01	0.09	0.045	-0.01
VC0514	0.015	-0.007	-0.009	0.001	-0.03	0.026	-0.034	0.005	-0.052	0.012	0.1	0.028
VC0515	-0.106	0.006	0.008	0.007	-0.079	0.029	0.035	-0.065	-0.145	0.14	-0.011	0.03
VC0516	-0.018	0	0.006	0.005	0.061	0.066	0.02	0.14	-0.06	-0.046	0.204	0.021

$w_{ij} = -1$ genes i and j never occur in the same species

$w_{ij} = 0$ expected co-occurrence between unrelated genes i and j drawn from a normal distribution

$w_{ij} > 0.045$ suggests shared biological function (Kim and Peterson 2011)

$w_{ij} = 1$ genes i and j always occur in the same species

Table 3.4: Partial Correlation Value w_{ij} of VSP-2 Genes i to j (Supplemental File 4) (con't)

	VC0505	VC0506	VC0507	VC0508	VC0509	VC0510	VC0512	VC0513	VC0514	VC0515	VC0516
VC0490	-0.011	-0.006	-0.018	0.053	0.012	0.015	-0.015	0.001	0.015	-0.106	-0.018
VC0491	0.003	0.001	0.009	0.007	-0.001	0.011	-0.006	0.01	-0.007	0.006	0
VC0492	0.013	0.002	0.035	-0.002	-0.023	0.001	0	0.004	-0.009	0.008	0.006
VC0493	0.097	-0.004	0.179	-0.029	0.037	-0.012	0.004	0.03	0.001	0.007	0.005
VC0494	-0.02	-0.026	-0.003	0.028	0.057	0.049	-0.006	-0.013	-0.03	-0.079	0.061
VC0495	0.017	0.024	0.009	0.111	-0.02	0.067	0.028	-0.007	0.026	0.029	0.066
VC0496	0.108	0.045	0.03	0.073	0.216	-0.005	0.041	0.049	-0.034	0.035	0.02
VC0497	0.018	0.018	-0.011	0.06	0.023	0.085	0.037	-0.008	0.005	-0.065	0.14
VC0498	-0.022	-0.005	0.005	0.017	0.058	0.064	0.012	-0.01	-0.052	-0.145	-0.06
VC0502	-0.004	0.01	-0.01	0.123	0.095	0.128	0.154	0.09	0.012	0.14	-0.046
VC0503	-0.007	0.064	-0.003	0.098	-0.022	0.174	0.1	0.045	0.1	-0.011	0.204
VC0504	0.389	0.09	0.369	0.003	0.161	-0.004	-0.002	-0.01	0.028	0.03	0.021
VC0505	1	0.026	0.162	0.005	0.081	-0.003	0.025	0.031	-0.022	-0.025	-0.036
VC0506	0.026	1	0.024	0.008	0.213	0.008	-0.048	0.035	-0.008	-0.009	0.044
VC0507	0.162	0.024	1	0.016	-0.023	0.003	-0.025	0.018	0.032	0.004	-0.008
VC0508	0.005	0.008	0.016	1	0.237	0.047	0.048	0.044	-0.069	0.061	0.111
VC0509	0.081	0.213	-0.023	0.237	1	0.002	-0.086	0.095	0.113	0.042	0.018
VC0510	-0.003	0.008	0.003	0.047	0.002	1	0.153	0.005	0.026	0.081	0.014
VC0512	0.025	-0.048	-0.025	0.048	-0.086	0.153	1	-0.006	0.509	0.112	0.032
VC0513	0.031	0.035	0.018	0.044	0.095	0.005	-0.006	1	0.044	0.034	-0.004
VC0514	-0.022	-0.008	0.032	-0.069	0.113	0.026	0.509	0.044	1	-0.105	0.056
VC0515	-0.025	-0.009	0.004	0.061	0.042	0.081	0.112	0.034	-0.105	1	-0.059
VC0516	-0.036	0.044	-0.008	0.111	0.018	0.081	0.014	0.032	-0.004	-0.004	1

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$w_{ij} = 1$ genes i and j always occur in the same species