

**Supplementary Table 2 - ORA genes amino acid Identity (%) and Similarity matrix (%)**

			Identity (%)																											
			Dr ORA						Tn ORA					Tr ORA					OI ORA						Ga ORA					
			1	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
Similarity (%)	Dr_ORA	1		32.9	21.3	25.1	19.4	18.8	33.9	22.3	23.9	17.4	15.4	33.0	20.2	24.1	19.3	15.5	72.8	31.4	19.1	24.4	17.7	18.9	65.9	36.4	18.2	19.9	10.9	21.3
		2	53.6		24.7	23.3	23.8	22.3	48.3	25.2	24.1	18.1	18.4	52.1	23.9	22.8	18.1	17.9	32.6	53.5	23.1	20.8	20.7	18.1	33.1	53.5	20.3	20.3	19.3	20.3
		3	35.6	42.4		34.9	19.9	18.8	23.4	55.2	37.6	20.2	19.5	23.7	56.9	36.6	20.1	18.3	21.2	22.0	51.8	34.3	20.1	18.6	22.1	25.0	49.3	31.2	18.3	21.1
		4	37.9	37.2	51.1		20.0	21.3	21.8	29.5	68.8	15.8	16.5	23.4	31.6	68.0	17.3	17.3	23.9	22.0	31.3	63.1	17.6	18.4	23.2	26.6	30.6	62.3	16.5	23.1
		5	34.1	40.5	39.6	35.0		26.3	21.5	20.8	19.7	45.3	25.3	23.9	21.0	21.0	44.9	23.4	21.7	24.8	17.4	19.5	43.2	21.2	17.7	22.4	16.2	18.0	42.4	24.0
		6	32.6	37.8	36.8	36.7	43.7		20.5	19.0	19.3	21.3	35.6	19.2	17.1	19.9	23.0	39.7	19.6	21.7	18.5	20.3	21.8	40.0	20.1	20.6	16.2	19.5	21.4	41.7
	Tn_ORA	2	53.3	70.0	42.2	39.7	38.0	38.5		24.4	21.4	17.1	21.4	78.5	22.8	20.9	18.5	19.6	36.8	54.1	22.0	19.1	16.2	20.0	35.1	67.6	20.9	18.8	14.9	22.0
		3	34.6	42.0	69.0	47.0	36.3	40.1	41.9		30.7	17.7	16.2	22.7	74.4	31.6	17.6	17.3	20.5	23.1	53.9	29.9	17.0	18.6	19.0	24.7	59.8	25.3	16.3	17.5
		4	37.1	40.1	53.0	76.7	32.6	37.2	38.6	46.1		15.9	14.6	23.2	32.7	87.1	18.1	17.4	23.4	22.4	31.8	69.0	18.1	16.1	22.5	25.8	28.2	66.4	16.4	22.9
		5	30.7	36.0	36.1	31.2	60.6	38.6	32.1	32.3	31.8		15.9	16.5	18.5	16.7	81.0	19.2	16.6	19.7	16.2	16.7	56.6	20.8	17.2	20.1	15.4	14.4	65.4	21.1
		6	28.4	34.5	36.3	28.5	40.9	51.1	37.5	29.1	28.3	34.5		19.1	17.4	14.5	18.4	66.9	16.6	19.6	18.0	14.7	18.3	40.1	15.6	19.6	16.6	14.3	18.4	45.2
	Tr_ORA	2	53.8	74.0	43.9	38.2	40.2	37.3	86.0	41.4	40.9	32.5	33.6		23.0	22.4	18.6	20.7	37.7	60.7	21.4	18.8	17.9	18.1	34.8	70.5	21.2	19.4	17.4	19.6
		3	33.0	40.9	73.7	48.0	36.3	36.7	39.8	80.1	48.3	33.7	33.8	43.2		32.1	18.8	17.8	19.8	21.9	57.8	30.9	17.7	19.4	18.4	23.4	62.2	29.1	18.4	19.7
		4	37.7	37.3	51.9	76.7	38.3	37.7	37.8	47.0	90.8	33.8	27.7	37.5	48.3		18.3	16.7	24.1	20.2	31.1	70.7	18.1	17.3	23.9	25.4	29.3	68.5	16.6	22.1
		5	32.8	35.1	37.5	32.1	62.7	38.9	32.9	32.1	34.2	89.7	33.7	35.0	33.9	34.9		20.4	17.4	22.6	15.8	18.8	56.0	22.1	17.9	21.1	14.5	16.0	64.6	21.3
		6	35.1	38.7	36.9	31.4	41.9	59.3	38.9	34.6	31.8	35.6	73.5	38.8	37.2	30.4	35.9		18.0	20.0	18.7	18.2	21.0	46.4	17.2	19.9	18.1	15.6	19.6	52.0
	OI_ORA	1	83.5	56.3	35.0	40.9	37.4	35.3	56.1	34.3	39.6	32.5	29.1	57.1	33.5	42.4	33.3	35.5		33.2	18.9	25.0	18.7	19.4	77.1	38.9	17.2	19.1	19.0	21.4
		2	52.9	72.4	41.6	38.0	40.7	38.1	70.4	39.8	41.3	36.1	33.8	77.0	40.6	37.0	37.8	36.1	52.8		22.2	21.2	19.5	19.5	32.7	63.9	18.3	17.4	17.9	21.1
		3	36.6	41.7	66.1	47.4	34.3	35.6	41.3	65.3	48.4	31.5	33.2	38.7	71.7	47.7	32.3	37.6	34.1	41.0		29.3	18.7	18.1	17.8	23.6	51.6	25.2	16.4	20.3
		4	39.1	34.2	49.4	72.4	33.9	35.4	36.2	43.8	79.9	32.1	27.1	33.4	44.9	81.2	33.4	31.0	40.4	37.9	45.8		19.0	16.8	22.6	23.5	27.7	68.5	16.2	20.3
		5	33.2	34.9	36.8	34.5	57.9	37.3	31.7	32.2	34.5	69.3	32.6	35.3	32.9	34.8	68.4	35.4	33.3	35.2	32.0	34.1		21.5	16.5	17.7	16.2	16.9	57.6	20.1
		6	35.3	31.8	35.3	32.1	42.4	59.7	36.2	35.7	30.9	34.3	53.1	35.4	37.1	29.2	35.4	60.5	37.7	37.1	33.0	30.6	34.8		17.6	16.6	16.4	16.4	20.6	50.9
	Ga_ORA	1	76.3	52.1	35.4	36.9	32.3	34.7	53.9	32.1	35.6	30.6	27.0	54.2	31.0	39.4	33.0	32.9	83.1	53.5	34.9	36.7	27.3	34.7		37.3	20.2	18.7	16.5	18.9
		2	58.3	73.1	42.5	39.5	38.4	38.9	77.5	39.5	40.5	33.9	33.4	79.7	39.2	38.8	34.0	38.0	59.5	74.8	40.3	38.1	33.3	33.0	59.2		21.5	22.5	19.0	22.9
3		33.4	32.7	63.7	45.1	32.7	33.4	37.9	72.4	44.6	31.0	32.5	39.0	70.0	44.6	30.0	35.7	36.1	36.8	62.8	42.2	32.2	32.0	37.6	37.5		27.3	14.8	17.3	
4		32.0	32.7	47.0	71.1	34.4	33.2	35.4	39.6	74.1	28.2	24.9	33.2	43.0	76.5	29.7	27.6	34.2	31.4	39.8	78.9	31.2	28.9	30.3	35.6	41.4		16.1	20.0	
5		18.1	36.4	35.7	30.2	58.2	37.2	28.8	28.4	30.2	76.0	33.3	31.2	32.3	30.8	75.8	33.9	30.8	34.0	30.7	29.8	70.0	34.6	31.0	33.9	30.0	27.9		20.2	
6		35.4	40.0	37.5	34.5	42.6	58.0	38.5	37.0	35.5	36.3	55.7	36.7	39.1	34.8	35.2	63.4	37.3	37.7	36.9	33.5	33.8	64.2	34.1	37.6	35.3	33.3	34.6		