

**A** **iCdR703**  
(str. R20291)

		Dembek et al. (2015)	
		Essential	Non-essential
Prediction	Essential	45 (78.95%)	12 (21.05%)
	Non-essential	64 (9.95%)	579 (90.05%)

**Accuracy: 89.1%**

**iCdG709**  
(str. 630)

		str. R20291 homologs	
		Essential	Non-essential
Prediction	Essential	44 (78.57%)	12 (21.43%)
	Non-essential	64 (10.14%)	567 (89.86%)

**Accuracy: 88.9%**

**B** **iCdR703**  
(str. R20291)

		Scaria et al. (2014)	
		Enhances	No Enhancement
Prediction	Enhances	78 (95.12%)	4 (4.88%)
	No Enhancement	32 (29.09%)	1 (3.03%)

**Positive predictive value: 95.1%**

**iCdG709**  
(str. 630)

		Scaria et al. (2014)	
		Enhances	No Enhancement
Prediction	Enhances	76 (92.68%)	6 (7.32%)
	No Enhancement	32 (29.63%)	1 (3.03%)

**Positive predictive value: 92.3%**

C

	Experimental			Prediction		
	Haslam (1986)	Karasawa (1995)	Karlsson (1999)	iCdG709 (str. 630)	iCdR703 (str. R20291)	
L-Tryptophan						Amino Acids
L-Methionine						
L-Isoleucine						
D-Proline						
L-Valine						
L-Leucine						
L-Cysteine						
Biotin (B7)						Vitamins
Pyridoxine (B6)						
Pantothenate (B5)						
Na+						Minerals
Fe2+						
Mg						
K+						
Co2+						
Cl-						
Mn2+						
Ca2+						
Essential			Non-Essential			