

The diagram illustrates the electron transport chain (ETC) embedded in the inner mitochondrial membrane. The chain consists of five main protein complexes labeled I, II, III, IV, and V. Electrons flow from NADH through Complex I, then to ubiquinone (Q), then through Complex III, then to ubiquinol (UQ), and finally through Complex IV. Complex II also receives electrons from FADH₂. Protons (H⁺) are pumped from the matrix to the intermembrane space at several points: Complex I pumps 4 H⁺, Complex III pumps 4 H⁺, and Complex IV pumps 2 H⁺. Complex V is involved in ATP synthesis, where ADP + P_i is converted to ATP as protons flow back into the matrix. Oxygen (O₂) is reduced to water (H₂O) at Complex IV. The outer mitochondrial membrane is shown as a separate layer below the inner membrane.

		<i>M. incognita</i> Gene	Fluensulfone	Fluopyram	Fluazaindolizine	Oxamyl
NADH Dehydrogenase (1)		Minc3s00008g00559	*		*	*
		Minc3s00012g00785	*		*	
		Minc3s00038g02242			*	
		Minc3s00098g04493		*	*	*
		Minc3s00135g05667				
		Minc3s00266g08973				
		Minc3s00285g09420				
		Minc3s00315g10022			*	*
		Minc3s00319g10109	*			
		Minc3s00375g11230				
		Minc3s00494g13278			*	
		Minc3s00551g14151	*		*	
		Minc3s01075g20479	*		*	
		Minc3s01133g21035	*		*	
		Minc3s01163g21318			*	
		Minc3s01189g21533			*	
		Minc3s01699g25712	*			
		Minc3s02056g28004	*	*		*
		Minc3s04263g35881	*		*	
		Minc3s04263g35882			*	
	Minc3s06355g39707					
	Minc3s09703g43463					
Succinate Dehydrogenase (2)		Minc3s00146g06024	*			
		Minc3s01782g26268	*			
		Minc3s01782g26269				
		Minc3s01234g21941		*		*
		Minc3s01240g21987				
		Minc3s08170g41971				
		Minc3s02331g29503		*	*	*
		Minc3s04244g35837			*	
	Minc3s06909g40472	*	*	*	*	
Chytochrome c Reductase (3)		Minc3s00002g00065			*	
		Minc3s00062g03158			*	
		Minc3s00312g09954	*			
		Minc3s00434g12264			*	
		Minc3s02374g29735				
		Minc3s02776g31518	*	*	*	
	Minc3s03850g34974	*				
Chytochrome c Oxidase (4)		Minc3s00015g00966	*		*	
		Minc3s00036g02141	*		*	
		Minc3s00069g03455	*			
		Minc3s00082g03963			*	
		Minc3s00218g07840			*	
		Minc3s00244g08416			*	*
		Minc3s00335g10424	*			
		Minc3s00354g10851	*			
		Minc3s00416g11959				
		Minc3s00964g19348	*		*	
		Minc3s01723g25867			*	
		Minc3s01800g26396	*		*	
		Minc3s03038g32524				
		Minc3s03702g34561				
		Minc3s05463g38288	*		*	
	Minc3s05943g39070	*		*		
	Minc3s07375g41044					
ATPase (5)		Minc3s00016g01093	*		*	
		Minc3s00109g04813	*			*
		Minc3s00132g05618			*	
		Minc3s00681g16004	*			*
		Minc3s00035g02066	*		*	
		Minc3s00761g16987	*		*	

Log₂Fold Change Value

-2.6 0 2.6