

Supplemental Table 1. Collection data with CalCOFI line, station, cruise identifiers, station depth (m), species collected, length (mm), and GenBank accession numbers. \* - not measurable

line	station	cruise	station depth (m)	species	length (mm)	GenBank haplotype accession numbers
80	55	0501NH	777	<i>moseri</i>	4.8	
80	55	1001NH	789	<i>moseri</i>	4.8	
80	55	1001NH	789	<i>rufinanus</i>	4.8	OQ944423
80	60	0801JD	2148	<i>rufinanus</i>	3.8	
83.3	51	1301SH	75	<i>moseri</i>	3.9	
85.8	41.3	0202NH	875	<i>moseri</i>	3.7	
85.8	50	0202NH	120	<i>moseri</i>	3.6	
86.7	35	0501NH	695	<i>rufinanus</i>	5.4	OQ944440
86.7	35	0701JD	683	<i>moseri</i>	3.3	
86.7	35	0701JD	683	<i>rufinanus</i>	5.8	OQ944424
86.7	35	1001NH	670	<i>moseri</i>	7.2	OQ944383
86.7	40	0101JD	750	<i>moseri</i>	5.6	
86.7	40	0202NH	801	<i>moseri</i>	6.2	
86.7	40	0302JD	720	<i>moseri</i>	*	
86.7	40	1301SH	723	<i>moseri</i>	6.2	
86.7	45	0101JD	1656	<i>rufinanus</i>	4.3	
86.7	45	0202NH	1680	<i>moseri</i>	3.4	OQ944383
86.7	45	0401JD	1700	<i>moseri</i>	3.6, 4.2	
86.7	45	1202NH	1675	<i>moseri</i>	3.8, 4.0, 4.3, 4.7, 4.8	
86.7	45	1202NH	1675	<i>rufinanus</i>	3.1, 4.1, 4.5, 5.1	
86.7	46.3	0202NH	1260	<i>moseri</i>	3.6, 3.6, 4.0	
86.7	47.5	0202NH	762	<i>moseri</i>	3.3, 3.3, 3.7	
86.7	47.5	0202NH	762	<i>rufinanus</i>	3.6	OQ944423
86.7	47.5	0202NH	762	<i>rufinanus</i>	3.9	OQ944429
86.7	47.5	0202NH	762	<i>rufinanus</i>	3.1	OQ944442
86.7	47.5	0202NH	762	<i>rufinanus</i>	*	
86.7	48.8	0202NH	105	<i>moseri</i>	3.5, 3.9, 3.9, 4.7	
86.7	48.8	0202NH	105	<i>rufinanus</i>	4.0	OQ944424
86.7	48.8	0202NH	105	<i>rufinanus</i>	4.4	OQ944430
86.7	50	0101JD	69	<i>moseri</i>	5.8	
86.7	50	0201JD	72	<i>moseri</i>	3.8	
86.7	50	0201JD	72	<i>rufinanus</i>	3.3, 4.7	
86.7	50	0401JD	75	<i>moseri</i>	3.1, 3.3, 3.6, 3.8	
86.7	50	0401JD	75	<i>rufinanus</i>	3.3, 3.5, 4.3	
86.7	50	0501NH	64	<i>moseri</i>	3.3	
86.7	50	0801JD	75	<i>moseri</i>	3.8, *	

line	station	cruise	station depth (m)	species	length (mm)	GenBank haplotype accession numbers
86.7	50	0901NH	68	<i>moseri</i>	3.7, 4.3	
86.7	50	1001NH	70	<i>moseri</i>	6.8	OQ944390
86.7	50	1001NH	70	<i>moseri</i>	4.2	
86.7	50	1001NH	70	<i>rufinanus</i>	3.8	
86.7	50	1202NH	79	<i>moseri</i>	5.3	
86.7	50	1202NH	79	<i>rufinanus</i>	4.5	
86.7	50	1301SH	78	<i>moseri</i>	4.2	
86.7	55	0701JD	1215	<i>moseri</i>	3.5	
86.7	60	0201JD	720	<i>moseri</i>	3.9	OQ944393
86.7	60	0701JD	724	<i>moseri</i>	5.3	
86.7	60	0801JD	731	<i>moseri</i>	5.1	OQ944420
87.5	45	0202NH	1039	<i>moseri</i>	3.3	OQ944401
89.2	43.8	0202NH	1638	<i>moseri</i>	3.6	OQ944383
89.2	43.8	0202NH	1638	<i>moseri</i>	3.8	OQ944403
90	35	1001NH	379	<i>rufinanus</i>	4.8	OQ944423
90	35	1101NH	217	<i>moseri</i>	4.6	
90	35	1301SH	328	<i>moseri</i>	8.9	
90	37	0201JD	1195	<i>moseri</i>	4.2	
90	45	0302JD	1723	<i>moseri</i>	*	
90	45	0501NH	1722	<i>moseri</i>	3.0, 3.5, 3.7, 3.8, 3.8	
90	45	0501NH	1722	<i>rufinanus</i>	4.3	OQ944427
90	45	0501NH	1722	<i>rufinanus</i>	2.9	OQ944433
90	45	0501NH	1722	<i>rufinanus</i>	3.1	
90	45	0901NH	1652	<i>moseri</i>	3.9	OQ944392
90	45	1202NH	1716	<i>moseri</i>	4.5	OQ944389
90	45	1202NH	1716	<i>moseri</i>	4.8	
90	45	1301SH	1617	<i>moseri</i>	3.4, 4.2	
90	50	0202NH	325	<i>moseri</i>	3.9	OQ944419
90	50	0202NH	325	<i>rufinanus</i>	*	
90	53	0202NH	1337	<i>moseri</i>	2.6	OQ944383
90	53	0202NH	1337	<i>moseri</i>	2.4	OQ944392
90	53	0202NH	1337	<i>moseri</i>	3.2	OQ944418
90	53	0202NH	1337	<i>moseri</i>	2.8, 3.3	
90	53	0202NH	1337	<i>rufinanus</i>	3.3	OQ944423
90	53	0202NH	1337	<i>rufinanus</i>	3.4	OQ944424
90	53	0202NH	1337	<i>rufinanus</i>	2.8	OQ944437
90	53	0202NH	1337	<i>rufinanus</i>	3.3	OQ944438
90	53	0602JD	1333	<i>moseri</i>	4.3	
90	53	1101NH	1333	<i>moseri</i>	3.6	

line	station	cruise	station depth (m)	species	length (mm)	GenBank haplotype accession numbers
90	53	1202NH	1335	<i>moseri</i>	5.4	OQ944421
90	53	1202NH	1335	<i>moseri</i>	3.3, 3.3, 3.6, 3.8, 3.8, 3.9, 4.0, 4.3, 4.3, 4.5, 4.7, 4.8, 4.8, 5.3	
90	53	1202NH	1335	<i>rufinanus</i>	5.3	OQ944423
90	53	1202NH	1335	<i>rufinanus</i>	3.5, 3.6, 4.3, 4.5	
90	53	1301SH	1309	<i>moseri</i>	3.9, 5.4	
90	53	1301SH	1309	<i>rufinanus</i>	4.4	
90	60	1301SH	950	<i>moseri</i>	5.3, 5.3	
90.8	50	0202NH	231	<i>moseri</i>	3.3, 3.4, 3.6, 3.8	OQ944383
90.8	50	0202NH	231	<i>moseri</i>	3.4	OQ944384
90.8	50	0202NH	231	<i>moseri</i>	3.3	OQ944395
90.8	50	0202NH	231	<i>moseri</i>	3.6	OQ944396
90.8	50	0202NH	231	<i>moseri</i>	3.4	OQ944397
90.8	50	0202NH	231	<i>moseri</i>	3.6	OQ944398
90.8	50	0202NH	231	<i>moseri</i>	3.2	OQ944399
90.8	50	0202NH	231	<i>rufinanus</i>	2.9, 3.3, 3.5	OQ944423
90.8	50	0202NH	231	<i>rufinanus</i>	2.8, 3.4	OQ944424
90.8	50	0202NH	231	<i>rufinanus</i>	3.1	OQ944425
90.8	50	0202NH	231	<i>rufinanus</i>	3.4	OQ944429
90.8	51.3	0202NH	80	<i>moseri</i>	4.2	OQ944383
90.8	51.3	0202NH	80	<i>moseri</i>	3.5	OQ944408
90.8	51.3	0202NH	80	<i>moseri</i>	5.0	OQ944409
90.8	51.3	0202NH	80	<i>rufinanus</i>	5.5	OQ944439
90.8	52.5	0202NH	245	<i>moseri</i>	3.1, 3.3, 3.4, 4.6	OQ944383
90.8	52.5	0202NH	245	<i>moseri</i>	2.9	OQ944384
90.8	52.5	0202NH	245	<i>moseri</i>	2.8, 3.2	OQ944386
90.8	52.5	0202NH	245	<i>moseri</i>	2.8	OQ944387
90.8	52.5	0202NH	245	<i>moseri</i>	3.7	OQ944388
90.8	52.5	0202NH	245	<i>moseri</i>	3.0	OQ944390
90.8	52.5	0202NH	245	<i>moseri</i>	4.0	OQ944415
90.8	52.5	0202NH	245	<i>moseri</i>	3.2	OQ944416
90.8	52.5	0202NH	245	<i>moseri</i>	3.4	OQ944417
90.8	52.5	0202NH	245	<i>moseri</i>	3.0, 3.0, 3.2, 4.2	
90.8	52.5	0202NH	245	<i>rufinanus</i>	3.8	OQ944423
90.8	52.5	0202NH	245	<i>rufinanus</i>	3.3	OQ944430
90.8	52.5	0202NH	245	<i>rufinanus</i>	4.4	OQ944436
91.7	47.5	0202NH	1305	<i>moseri</i>	4.4	
91.7	50	0202NH	95	<i>rufinanus</i>	3.9	OQ944423

line	station	cruise	station depth (m)	species	length (mm)	GenBank haplotype accession numbers
91.7	51.3	0202NH	220	<i>moseri</i>	3.8	OQ944410
91.7	51.3	0202NH	220	<i>rufinanus</i>	3.8	OQ944423
91.7	51.3	0202NH	220	<i>rufinanus</i>	3.4	OQ944424
91.7	51.3	0202NH	220	<i>rufinanus</i>	3.8	OQ944428
91.7	51.3	0202NH	220	<i>rufinanus</i>	4.1	OQ944431
91.7	51.3	0202NH	220	<i>rufinanus</i>	3.4	OQ944432
91.7	51.3	0202NH	220	<i>rufinanus</i>	3.7	OQ944433
91.7	52.5	0202NH	455	<i>moseri</i>	3.5, 3.5, 4.0, 4.0, 4.0	OQ944383
91.7	52.5	0202NH	455	<i>moseri</i>	3.9, 4.4	OQ944386
91.7	52.5	0202NH	455	<i>moseri</i>	3.4	OQ944388
91.7	52.5	0202NH	455	<i>moseri</i>	3.7	OQ944411
91.7	52.5	0202NH	455	<i>moseri</i>	3.7	OQ944412
91.7	52.5	0202NH	455	<i>moseri</i>	4.1	OQ944413
91.7	52.5	0202NH	455	<i>moseri</i>	3.5	OQ944414
91.7	52.5	0202NH	455	<i>moseri</i>	*	
91.7	52.5	0202NH	455	<i>rufinanus</i>	*	
93.3	26.7	1101NH	68	<i>rufinanus</i>	5.2	OQ944423
93.3	28	1101NH	657	<i>rufinanus</i>	5.4	OQ944423
93.3	35	0202NH	592	<i>moseri</i>	4.9	OQ944394
93.3	35	0901NH	627	<i>moseri</i>	4.2	
93.3	35	1301SH	620	<i>moseri</i>	7.1, 8.8	
93.3	36	0202NH	252	<i>moseri</i>	4.2	OQ944383
93.3	36	0202NH	252	<i>moseri</i>	4.2	OQ944385
93.3	36	0202NH	252	<i>moseri</i>	4.2	OQ944386
93.3	36	0202NH	252	<i>moseri</i>	4.1	OQ944387
93.3	36	0202NH	252	<i>moseri</i>	3.9	OQ944388
93.3	36	0202NH	252	<i>moseri</i>	4.4	OQ944400
93.3	36	0202NH	252	<i>moseri</i>	4.5	
93.3	40	1301SH	1684	<i>moseri</i>	4.0	
93.3	45	0202NH	1440	<i>moseri</i>	4.8	OQ944383
93.3	45	0202NH	1440	<i>moseri</i>	5.0	OQ944386
93.3	45	0202NH	1440	<i>rufinanus</i>	4.6	OQ944423
93.3	45	0602JD	1345	<i>moseri</i>	6.8	
93.3	45	0901NH	1354	<i>moseri</i>	4.9	OQ944383
93.3	45	1101NH	1373	<i>moseri</i>	3.5, 3.8, 3.8	
93.3	45	1101NH	1373	<i>rufinanus</i>	3.2, 3.2, 4.3	
93.3	45	9901RR	1662	<i>moseri</i>	3.2	
93.3	50	0202NH	1493	<i>moseri</i>	5.0, *	OQ944383
93.3	50	0202NH	1493	<i>moseri</i>	4.7	OQ944385

line	station	cruise	station depth (m)	species	length (mm)	GenBank haplotype accession numbers
93.3	50	0202NH	1493	<i>moseri</i>	4.4	OQ944402
93.3	50	0202NH	1493	<i>rufinanus</i>	3.7, 3.9, 4.3, 4.9	OQ944423
93.3	50	0202NH	1493	<i>rufinanus</i>	4.7	OQ944425
93.3	50	0602JD	1482	<i>moseri</i>	4.2	
93.3	50	0701JD	1486	<i>rufinanus</i>	5.2	
93.3	50	1001NH	1490	<i>moseri</i>	5.5	OQ944386
93.3	55	0202NH	1630	<i>moseri</i>	4.8	OQ944383
93.3	55	0202NH	1630	<i>rufinanus</i>	4.4	OQ944423
93.3	55	0202NH	1630	<i>rufinanus</i>	5.0	OQ944443
93.3	55	0602JD	1600	<i>moseri</i>	3.1, 3.7	
93.3	55	0801JD	1500	<i>moseri</i>	3.5, 3.5, 3.8, 4.2	
93.3	55	1101NH	1612	<i>moseri</i>	4.7	
93.3	55	1101NH	1612	<i>rufinanus</i>	5.4	
93.3	60	0202NH	1839	<i>moseri</i>	3.3, 3.5, 3.7, 4.1, 4.8	OQ944383
93.3	60	0202NH	1839	<i>moseri</i>	2.9	OQ944385
93.3	60	0202NH	1839	<i>moseri</i>	4.2	OQ944389
93.3	60	0202NH	1839	<i>moseri</i>	4.2	OQ944390
93.3	60	0202NH	1839	<i>moseri</i>	3.7	OQ944391
93.3	60	0202NH	1839	<i>moseri</i>	3.1	OQ944404
93.3	60	0202NH	1839	<i>moseri</i>	4.4	OQ944405
93.3	60	0202NH	1839	<i>moseri</i>	3.8	OQ944406
93.3	60	0202NH	1839	<i>moseri</i>	4.2	OQ944407
93.3	60	0202NH	1839	<i>moseri</i>	3.5, 3.8	
93.3	60	0202NH	1839	<i>rufinanus</i>	2.6, 3.2, 3.2, 3.7, 3.8, 3.8, 3.9, 4.6	OQ944423
93.3	60	0202NH	1839	<i>rufinanus</i>	4.7	OQ944424
93.3	60	0202NH	1839	<i>rufinanus</i>	3.1, 3.3, 3.5, 3.6, 3.9	OQ944426
93.3	60	0202NH	1839	<i>rufinanus</i>	4.0, *	OQ944427
93.3	60	0202NH	1839	<i>rufinanus</i>	3.9, 4.0	OQ944428
93.3	60	0202NH	1839	<i>rufinanus</i>	3.1	OQ944431
93.3	60	0202NH	1839	<i>rufinanus</i>	2.7	OQ944432
93.3	60	0202NH	1839	<i>rufinanus</i>	2.8	OQ944434
93.3	60	0202NH	1839	<i>rufinanus</i>	3.0	OQ944435