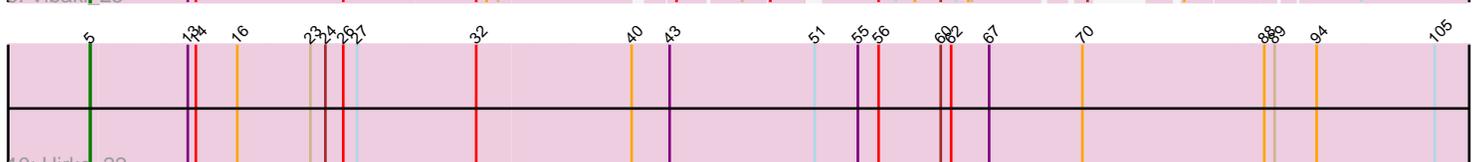
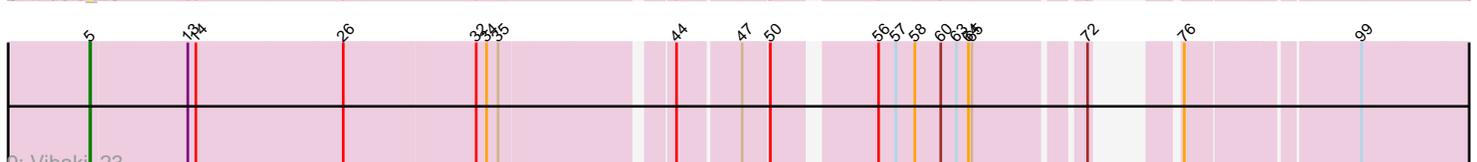
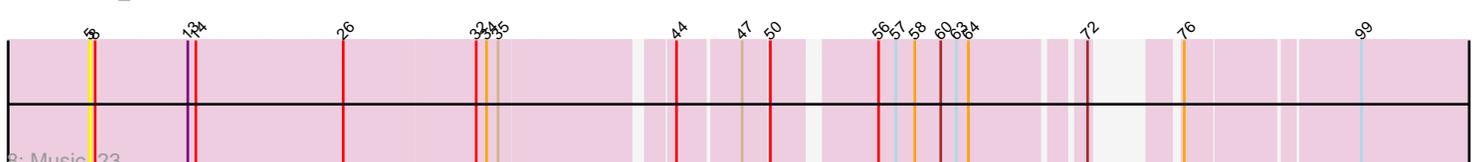
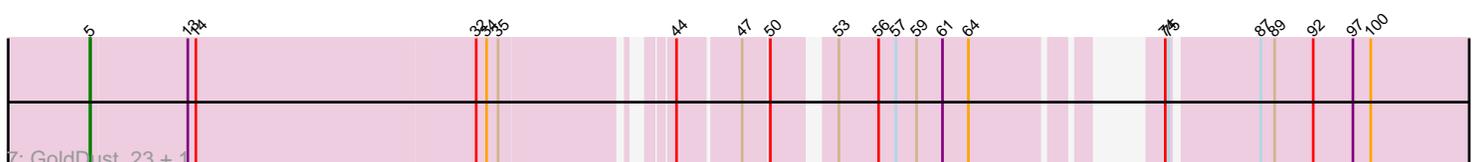
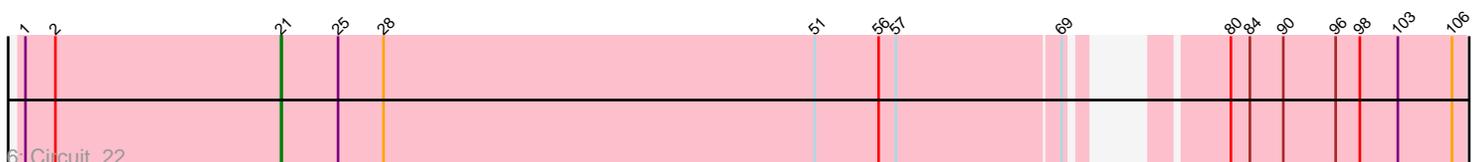
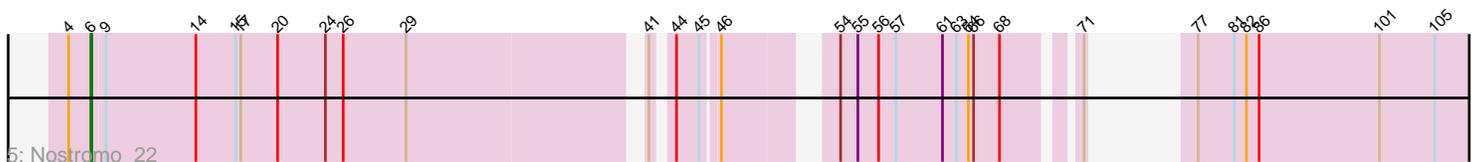
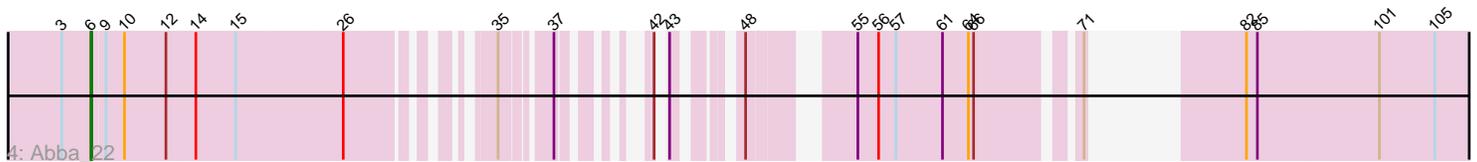
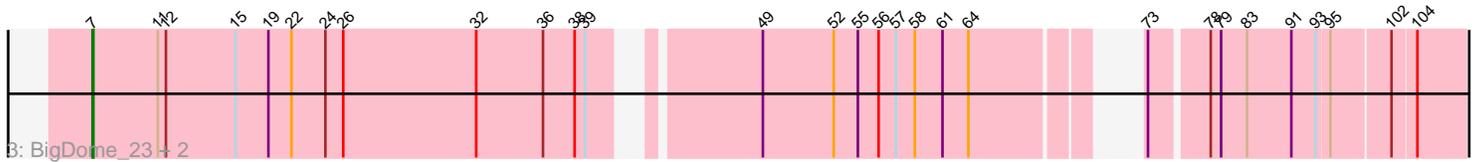
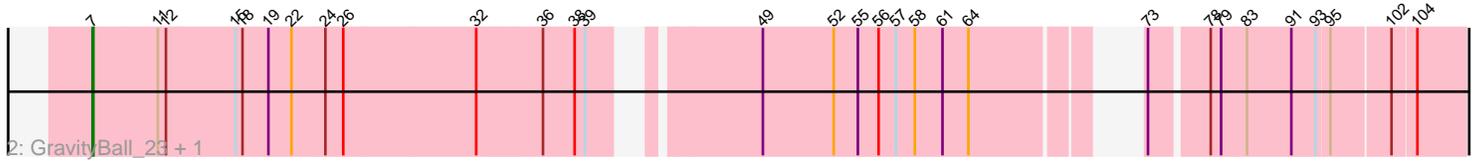
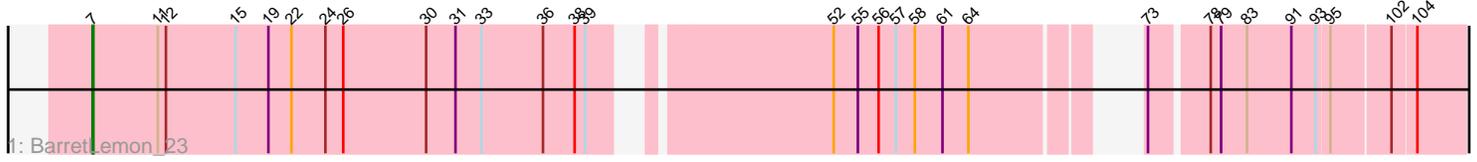


Pham 284312



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 284312 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284312 has 14 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BarretLemon_23
- Track 2 : GravityBall_23, StevieBAY_23
- Track 3 : BigDome_23, Timinator_23, LeeroyJ_23
- Track 4 : Abba_22
- Track 5 : Nostromo_22
- Track 6 : Circuit_22
- Track 7 : GoldDust_23, Gooberta_23
- Track 8 : Music_23
- Track 9 : Vibaki_23
- Track 10 : Hirko_22

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 7, it was called in 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon_23, BigDome_23, GravityBall_23, LeeroyJ_23, StevieBAY_23, Timinator_23,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- Abba_22, Circuit_22, GoldDust_23, Gooberta_23, Hirko_22, Music_23, Nostromo_22, Vibaki_23,

Summary by start number:

Start 5:

- Found in 5 of 14 (35.7%) of genes in pham
- Manual Annotations of this start: 3 of 11
- Called 100.0% of time when present

- Phage (with cluster) where this start called: GoldDust_23 (FL), Gooberta_23 (FL), Hirko_22 (FL), Music_23 (FL), Vibaki_23 (FL),

Start 6:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abba_22 (AO3), Nostromo_22 (AO3),

Start 7:

- Found in 6 of 14 (42.9%) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarretLemon_23 (AO2), BigDome_23 (AO2), GravityBall_23 (AO2), LeeroyJ_23 (AO2), StevieBAY_23 (AO2), Timinator_23 (AO2),

Start 21:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Circuit_22 (FH),

Summary by clusters:

There are 4 clusters represented in this pham: FH, AO3, FL, AO2,

Info for manual annotations of cluster AO2:

- Start number 7 was manually annotated 5 times for cluster AO2.

Info for manual annotations of cluster AO3:

- Start number 6 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster FH:

- Start number 21 was manually annotated 1 time for cluster FH.

Info for manual annotations of cluster FL:

- Start number 5 was manually annotated 3 times for cluster FL.

Gene Information:

Gene: Abba_22 Start: 19101, Stop: 20864, Start Num: 6

Candidate Starts for Abba_22:

(3, 19050), (Start: 6 @19101 has 2 MA's), (9, 19122), (10, 19149), (12, 19218), (14, 19266), (15, 19335), (26, 19518), (35, 19686), (37, 19755), (42, 19818), (43, 19821), (48, 19887), (55, 20013), (56, 20049), (57, 20079), (61, 20160), (64, 20205), (66, 20214), (71, 20361), (82, 20475), (85, 20493), (101, 20697), (105, 20793),

Gene: BarretLemon_23 Start: 18796, Stop: 20910, Start Num: 7

Candidate Starts for BarretLemon_23:

(Start: 7 @18796 has 5 MA's), (11, 18907), (12, 18919), (15, 19036), (19, 19093), (22, 19132), (24, 19189), (26, 19219), (30, 19360), (31, 19411), (33, 19456), (36, 19558), (38, 19612), (39, 19630), (52, 19981), (55, 20023), (56, 20059), (57, 20089), (58, 20122), (61, 20170), (64, 20215), (73, 20413), (78, 20503), (79, 20521), (83, 20560), (91, 20635), (93, 20671), (95, 20692), (102, 20788), (104, 20827),

Gene: BigDome_23 Start: 18784, Stop: 20898, Start Num: 7

Candidate Starts for BigDome_23:

(Start: 7 @18784 has 5 MA's), (11, 18895), (12, 18907), (15, 19024), (19, 19081), (22, 19120), (24, 19177), (26, 19207), (32, 19435), (36, 19546), (38, 19600), (39, 19618), (49, 19846), (52, 19969), (55, 20011), (56, 20047), (57, 20077), (58, 20110), (61, 20158), (64, 20203), (73, 20401), (78, 20491), (79, 20509), (83, 20548), (91, 20623), (93, 20659), (95, 20680), (102, 20776), (104, 20815),

Gene: Circuit_22 Start: 18127, Stop: 20016, Start Num: 21

Candidate Starts for Circuit_22:

(1, 17686), (2, 17737), (Start: 21 @18127 has 1 MA's), (25, 18226), (28, 18301), (51, 19042), (56, 19153), (57, 19183), (69, 19462), (80, 19615), (84, 19648), (90, 19705), (96, 19795), (98, 19837), (103, 19903), (106, 19993),

Gene: GoldDust_23 Start: 20859, Stop: 22940, Start Num: 5

Candidate Starts for GoldDust_23:

(Start: 5 @20859 has 3 MA's), (13, 21012), (14, 21024), (32, 21501), (34, 21519), (35, 21537), (44, 21774), (47, 21873), (50, 21915), (53, 21999), (56, 22068), (57, 22098), (59, 22134), (61, 22179), (64, 22224), (74, 22440), (75, 22446), (87, 22584), (89, 22608), (92, 22671), (97, 22740), (100, 22770),

Gene: Gooberta_23 Start: 20858, Stop: 22939, Start Num: 5

Candidate Starts for Gooberta_23:

(Start: 5 @20858 has 3 MA's), (13, 21011), (14, 21023), (32, 21500), (34, 21518), (35, 21536), (44, 21773), (47, 21872), (50, 21914), (53, 21998), (56, 22067), (57, 22097), (59, 22133), (61, 22178), (64, 22223), (74, 22439), (75, 22445), (87, 22583), (89, 22607), (92, 22670), (97, 22739), (100, 22769),

Gene: GravityBall_23 Start: 18795, Stop: 20909, Start Num: 7

Candidate Starts for GravityBall_23:

(Start: 7 @18795 has 5 MA's), (11, 18906), (12, 18918), (15, 19035), (18, 19047), (19, 19092), (22, 19131), (24, 19188), (26, 19218), (32, 19446), (36, 19557), (38, 19611), (39, 19629), (49, 19857), (52, 19980), (55, 20022), (56, 20058), (57, 20088), (58, 20121), (61, 20169), (64, 20214), (73, 20412), (78, 20502), (79, 20520), (83, 20559), (91, 20634), (93, 20670), (95, 20691), (102, 20787), (104, 20826),

Gene: Hirko_22 Start: 20345, Stop: 22702, Start Num: 5

Candidate Starts for Hirko_22:

(Start: 5 @20345 has 3 MA's), (13, 20498), (14, 20510), (16, 20582), (23, 20708), (24, 20732), (26, 20762), (27, 20786), (32, 20990), (40, 21248), (43, 21314), (51, 21566), (55, 21641), (56, 21677), (60, 21785), (62, 21803), (67, 21869), (70, 22031), (88, 22343), (89, 22361), (94, 22427), (105, 22631),

Gene: LeeroyJ_23 Start: 18795, Stop: 20909, Start Num: 7

Candidate Starts for LeeroyJ_23:

(Start: 7 @18795 has 5 MA's), (11, 18906), (12, 18918), (15, 19035), (19, 19092), (22, 19131), (24, 19188), (26, 19218), (32, 19446), (36, 19557), (38, 19611), (39, 19629), (49, 19857), (52, 19980), (55, 20022), (56, 20058), (57, 20088), (58, 20121), (61, 20169), (64, 20214), (73, 20412), (78, 20502), (79, 20520), (83, 20559), (91, 20634), (93, 20670), (95, 20691), (102, 20787), (104, 20826),

Gene: Music_23 Start: 20727, Stop: 22802, Start Num: 5

Candidate Starts for Music_23:

(Start: 5 @20727 has 3 MA's), (8, 20736), (13, 20880), (14, 20892), (26, 21144), (32, 21369), (34, 21387), (35, 21405), (44, 21672), (47, 21771), (50, 21813), (56, 21966), (57, 21996), (58, 22029), (60, 22074), (63, 22101), (64, 22122), (72, 22299), (76, 22353), (99, 22617),

Gene: Nostromo_22 Start: 18733, Stop: 20739, Start Num: 6

Candidate Starts for Nostromo_22:

(4, 18694), (Start: 6 @18733 has 2 MA's), (9, 18754), (14, 18898), (15, 18967), (17, 18976), (20, 19039), (24, 19120), (26, 19150), (29, 19258), (41, 19627), (44, 19651), (45, 19690), (46, 19714), (54, 19858), (55, 19888), (56, 19924), (57, 19954), (61, 20035), (63, 20059), (64, 20080), (66, 20089), (68, 20134), (71, 20236), (77, 20269), (81, 20332), (82, 20350), (86, 20371), (101, 20572), (105, 20668),

Gene: StevieBAY_23 Start: 18795, Stop: 20909, Start Num: 7

Candidate Starts for StevieBAY_23:

(Start: 7 @18795 has 5 MA's), (11, 18906), (12, 18918), (15, 19035), (18, 19047), (19, 19092), (22, 19131), (24, 19188), (26, 19218), (32, 19446), (36, 19557), (38, 19611), (39, 19629), (49, 19857), (52, 19980), (55, 20022), (56, 20058), (57, 20088), (58, 20121), (61, 20169), (64, 20214), (73, 20412), (78, 20502), (79, 20520), (83, 20559), (91, 20634), (93, 20670), (95, 20691), (102, 20787), (104, 20826),

Gene: Timinator_23 Start: 18795, Stop: 20909, Start Num: 7

Candidate Starts for Timinator_23:

(Start: 7 @18795 has 5 MA's), (11, 18906), (12, 18918), (15, 19035), (19, 19092), (22, 19131), (24, 19188), (26, 19218), (32, 19446), (36, 19557), (38, 19611), (39, 19629), (49, 19857), (52, 19980), (55, 20022), (56, 20058), (57, 20088), (58, 20121), (61, 20169), (64, 20214), (73, 20412), (78, 20502), (79, 20520), (83, 20559), (91, 20634), (93, 20670), (95, 20691), (102, 20787), (104, 20826),

Gene: Vibaki_23 Start: 20740, Stop: 22815, Start Num: 5

Candidate Starts for Vibaki_23:

(Start: 5 @20740 has 3 MA's), (13, 20893), (14, 20905), (26, 21157), (32, 21382), (34, 21400), (35, 21418), (44, 21685), (47, 21784), (50, 21826), (56, 21979), (57, 22009), (58, 22042), (60, 22087), (63, 22114), (64, 22135), (65, 22141), (72, 22312), (76, 22366), (99, 22630),