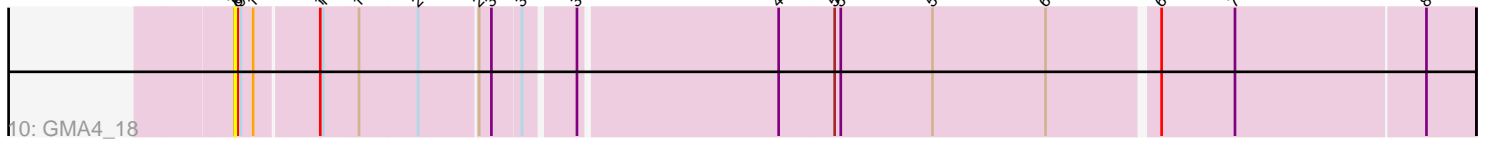
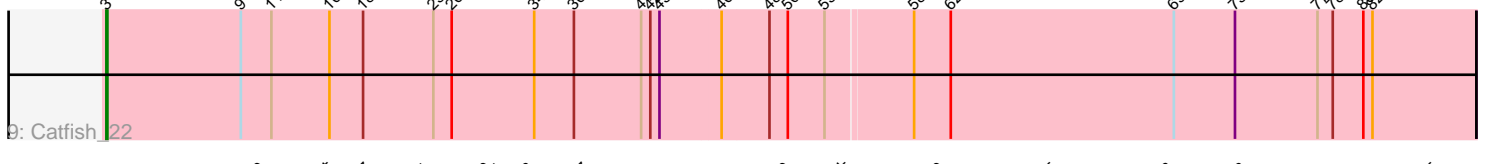
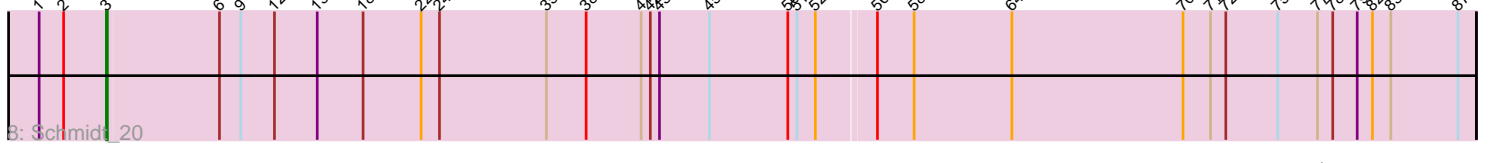
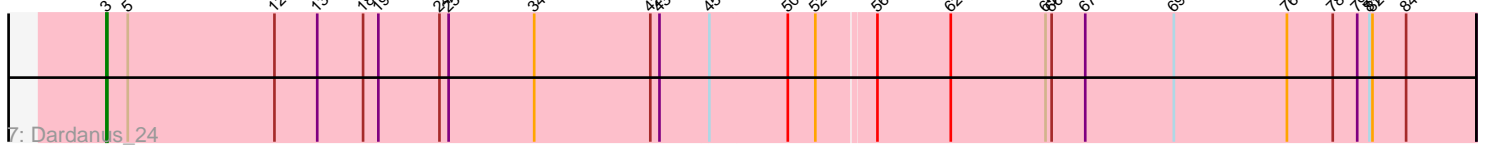
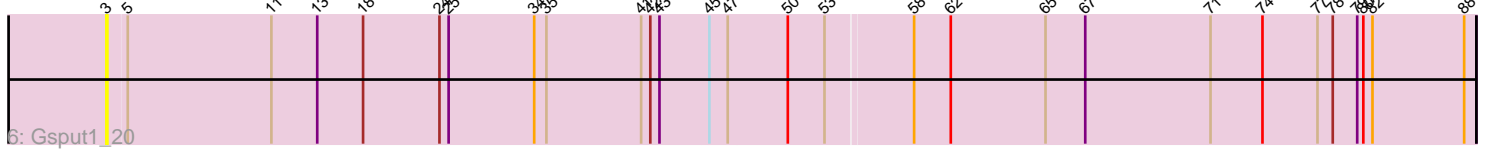
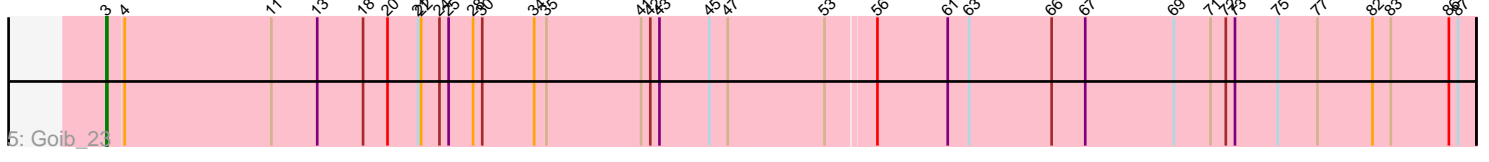
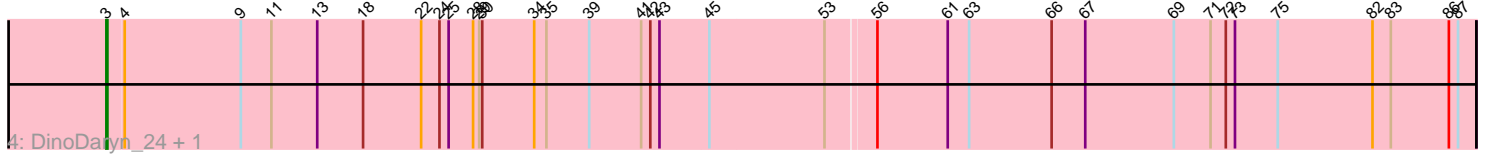
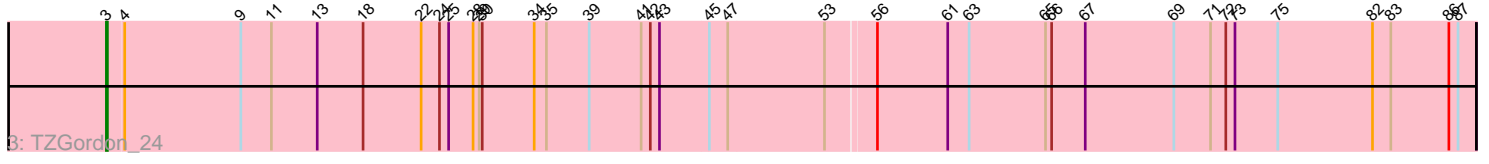
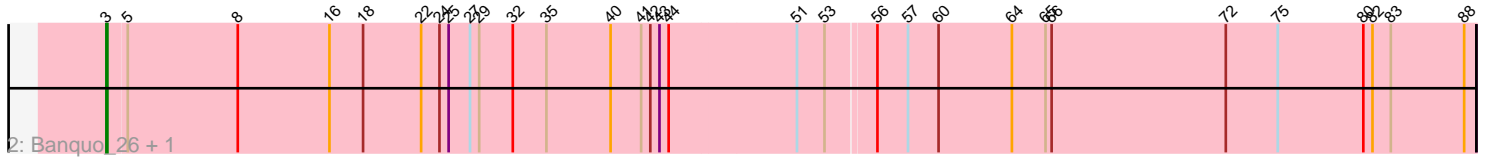
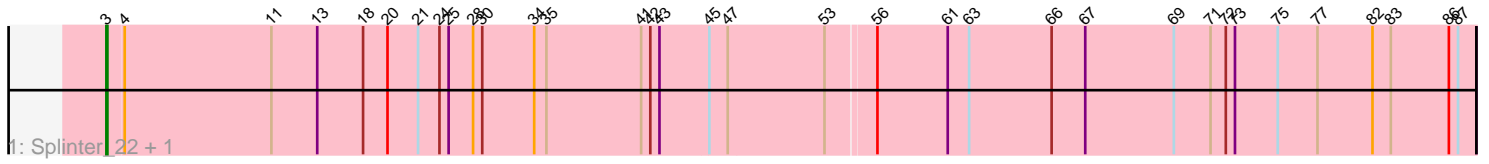


Pham 225015



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 225015 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225015 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Splinter_22, Vendetta_22
- Track 2 : Banquo_26, TinaLin_25
- Track 3 : TZGordon_24
- Track 4 : DinoDaryn_24, Huff_24
- Track 5 : Goib_23
- Track 6 : Gsp1_20
- Track 7 : Dardanus_24
- Track 8 : Schmidt_20
- Track 9 : Catfish_22
- Track 10 : GMA4_18

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

The start number called the most often in the published annotations is 3, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Banquo_26, Catfish_22, Dardanus_24, DinoDaryn_24, Goib_23, Gsp1_20, Huff_24, Schmidt_20, Splinter_22, TZGordon_24, TinaLin_25, Vendetta_22,

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

-

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

- GMA4_18,

Summary by start number:

Start 3:

- Found in 12 of 13 (92.3%) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_26 (CU1), Catfish_22 (CU5), Dardanus_24 (CU3), DinoDaryn_24 (CU1), Goib_23 (CU1), Gsp1_20 (CU2),

Huffy_24 (CU1), Schmidt_20 (CU4), Splinter_22 (CU1), TZGordon_24 (CU1), TinaLin_25 (CU1), Vendetta_22 (CU1),

Start 7:

- Found in 1 of 13 (7.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_18 (singleton),

Summary by clusters:

There are 6 clusters represented in this pham: CU5, CU4, CU3, CU2, CU1, singleton,

Info for manual annotations of cluster CU1:

- Start number 3 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 3 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 3 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 3 was manually annotated 1 time for cluster CU5.

Gene Information:

Gene: Banquo_26 Start: 17827, Stop: 19155, Start Num: 3

Candidate Starts for Banquo_26:

(Start: 3 @17827 has 11 MA's), (5, 17845), (8, 17953), (16, 18043), (18, 18076), (22, 18133), (24, 18151), (25, 18160), (27, 18181), (29, 18190), (32, 18223), (35, 18256), (40, 18319), (41, 18349), (42, 18358), (43, 18367), (44, 18376), (51, 18496), (53, 18523), (56, 18568), (57, 18598), (60, 18628), (64, 18700), (65, 18733), (66, 18739), (72, 18910), (75, 18961), (80, 19045), (82, 19054), (83, 19072), (88, 19144),

Gene: Catfish_22 Start: 18471, Stop: 19802, Start Num: 3

Candidate Starts for Catfish_22:

(Start: 3 @18471 has 11 MA's), (9, 18603), (11, 18633), (16, 18690), (18, 18723), (23, 18792), (26, 18810), (34, 18891), (36, 18930), (41, 18996), (42, 19005), (43, 19014), (46, 19071), (48, 19116), (50, 19134), (53, 19170), (58, 19251), (62, 19287), (69, 19506), (73, 19566), (77, 19647), (78, 19662), (80, 19692), (82, 19701),

Gene: Dardanus_24 Start: 16682, Stop: 18013, Start Num: 3

Candidate Starts for Dardanus_24:

(Start: 3 @16682 has 11 MA's), (5, 16703), (12, 16847), (13, 16889), (18, 16934), (19, 16949), (24, 17009), (25, 17018), (34, 17102), (42, 17216), (43, 17225), (45, 17270), (50, 17345), (52, 17372), (56, 17426), (62, 17498), (65, 17591), (66, 17597), (67, 17630), (69, 17717), (76, 17828), (78, 17873), (79, 17897), (81, 17909), (82, 17912), (84, 17945),

Gene: DinoDaryn_24 Start: 16702, Stop: 18030, Start Num: 3

Candidate Starts for DinoDaryn_24:

(Start: 3 @16702 has 11 MA's), (4, 16717), (9, 16831), (11, 16861), (13, 16906), (18, 16951), (22, 17008), (24, 17026), (25, 17035), (28, 17059), (29, 17065), (30, 17068), (34, 17119), (35, 17131), (39, 17173), (41, 17224), (42, 17233), (43, 17242), (45, 17287), (53, 17398), (56, 17443), (61, 17512), (63, 17533), (66, 17614), (67, 17647), (69, 17734), (71, 17770), (72, 17785), (73, 17794), (75, 17836), (82, 17929), (83, 17947), (86, 18004), (87, 18013),

Gene: GMA4_18 Start: 16957, Stop: 18117, Start Num: 7

Candidate Starts for GMA4_18:

(7, 16957), (8, 16960), (9, 16963), (10, 16972), (14, 17032), (15, 17035), (17, 17068), (21, 17125), (29, 17179), (31, 17191), (33, 17218), (37, 17263), (49, 17452), (54, 17506), (55, 17512), (59, 17602), (65, 17713), (68, 17815), (73, 17887), (85, 18070),

Gene: Goib_23 Start: 16480, Stop: 17808, Start Num: 3

Candidate Starts for Goib_23:

(Start: 3 @16480 has 11 MA's), (4, 16495), (11, 16639), (13, 16684), (18, 16729), (20, 16753), (21, 16783), (22, 16786), (24, 16804), (25, 16813), (28, 16837), (30, 16846), (34, 16897), (35, 16909), (41, 17002), (42, 17011), (43, 17020), (45, 17065), (47, 17083), (53, 17176), (56, 17221), (61, 17290), (63, 17311), (66, 17392), (67, 17425), (69, 17512), (71, 17548), (72, 17563), (73, 17572), (75, 17614), (77, 17653), (82, 17707), (83, 17725), (86, 17782), (87, 17791),

Gene: Gspu1_20 Start: 15750, Stop: 17078, Start Num: 3

Candidate Starts for Gspu1_20:

(Start: 3 @15750 has 11 MA's), (5, 15768), (11, 15909), (13, 15954), (18, 15999), (24, 16074), (25, 16083), (34, 16167), (35, 16179), (41, 16272), (42, 16281), (43, 16290), (45, 16335), (47, 16353), (50, 16410), (53, 16446), (58, 16527), (62, 16563), (65, 16656), (67, 16695), (71, 16818), (74, 16869), (77, 16923), (78, 16938), (79, 16962), (80, 16968), (82, 16977), (88, 17067),

Gene: Huffy_24 Start: 16702, Stop: 18030, Start Num: 3

Candidate Starts for Huffy_24:

(Start: 3 @16702 has 11 MA's), (4, 16717), (9, 16831), (11, 16861), (13, 16906), (18, 16951), (22, 17008), (24, 17026), (25, 17035), (28, 17059), (29, 17065), (30, 17068), (34, 17119), (35, 17131), (39, 17173), (41, 17224), (42, 17233), (43, 17242), (45, 17287), (53, 17398), (56, 17443), (61, 17512), (63, 17533), (66, 17614), (67, 17647), (69, 17734), (71, 17770), (72, 17785), (73, 17794), (75, 17836), (82, 17929), (83, 17947), (86, 18004), (87, 18013),

Gene: Schmidt_20 Start: 14705, Stop: 16033, Start Num: 3

Candidate Starts for Schmidt_20:

(1, 14639), (2, 14663), (Start: 3 @14705 has 11 MA's), (6, 14813), (9, 14834), (12, 14867), (13, 14909), (18, 14954), (22, 15011), (24, 15029), (35, 15134), (38, 15173), (41, 15227), (42, 15236), (43, 15245), (45, 15290), (50, 15365), (51, 15374), (52, 15392), (56, 15446), (58, 15482), (64, 15578), (70, 15746), (71, 15773), (72, 15788), (75, 15839), (77, 15878), (78, 15893), (79, 15917), (82, 15932), (83, 15950), (87, 16016),

Gene: Splinter_22 Start: 16480, Stop: 17808, Start Num: 3

Candidate Starts for Splinter_22:

(Start: 3 @16480 has 11 MA's), (4, 16495), (11, 16639), (13, 16684), (18, 16729), (20, 16753), (21, 16783), (24, 16804), (25, 16813), (28, 16837), (30, 16846), (34, 16897), (35, 16909), (41, 17002), (42, 17011), (43, 17020), (45, 17065), (47, 17083), (53, 17176), (56, 17221), (61, 17290), (63, 17311), (66, 17392), (67, 17425), (69, 17512), (71, 17548), (72, 17563), (73, 17572), (75, 17614), (77, 17653), (82, 17707), (83, 17725), (86, 17782), (87, 17791),

Gene: TZGordon_24 Start: 16619, Stop: 17947, Start Num: 3

Candidate Starts for TZGordon_24:

(Start: 3 @16619 has 11 MA's), (4, 16634), (9, 16748), (11, 16778), (13, 16823), (18, 16868), (22, 16925), (24, 16943), (25, 16952), (28, 16976), (29, 16982), (30, 16985), (34, 17036), (35, 17048), (39, 17090), (41, 17141), (42, 17150), (43, 17159), (45, 17204), (47, 17222), (53, 17315), (56, 17360), (61, 17429), (63, 17450), (65, 17525), (66, 17531), (67, 17564), (69, 17651), (71, 17687), (72, 17702), (73, 17711), (75, 17753), (82, 17846), (83, 17864), (86, 17921), (87, 17930),

Gene: TinaLin_25 Start: 17451, Stop: 18779, Start Num: 3

Candidate Starts for TinaLin_25:

(Start: 3 @17451 has 11 MA's), (5, 17469), (8, 17577), (16, 17667), (18, 17700), (22, 17757), (24, 17775), (25, 17784), (27, 17805), (29, 17814), (32, 17847), (35, 17880), (40, 17943), (41, 17973), (42, 17982), (43, 17991), (44, 18000), (51, 18120), (53, 18147), (56, 18192), (57, 18222), (60, 18252), (64, 18324), (65, 18357), (66, 18363), (72, 18534), (75, 18585), (80, 18669), (82, 18678), (83, 18696), (88, 18768),

Gene: Vendetta_22 Start: 16480, Stop: 17808, Start Num: 3

Candidate Starts for Vendetta_22:

(Start: 3 @16480 has 11 MA's), (4, 16495), (11, 16639), (13, 16684), (18, 16729), (20, 16753), (21, 16783), (24, 16804), (25, 16813), (28, 16837), (30, 16846), (34, 16897), (35, 16909), (41, 17002), (42, 17011), (43, 17020), (45, 17065), (47, 17083), (53, 17176), (56, 17221), (61, 17290), (63, 17311), (66, 17392), (67, 17425), (69, 17512), (71, 17548), (72, 17563), (73, 17572), (75, 17614), (77, 17653), (82, 17707), (83, 17725), (86, 17782), (87, 17791),