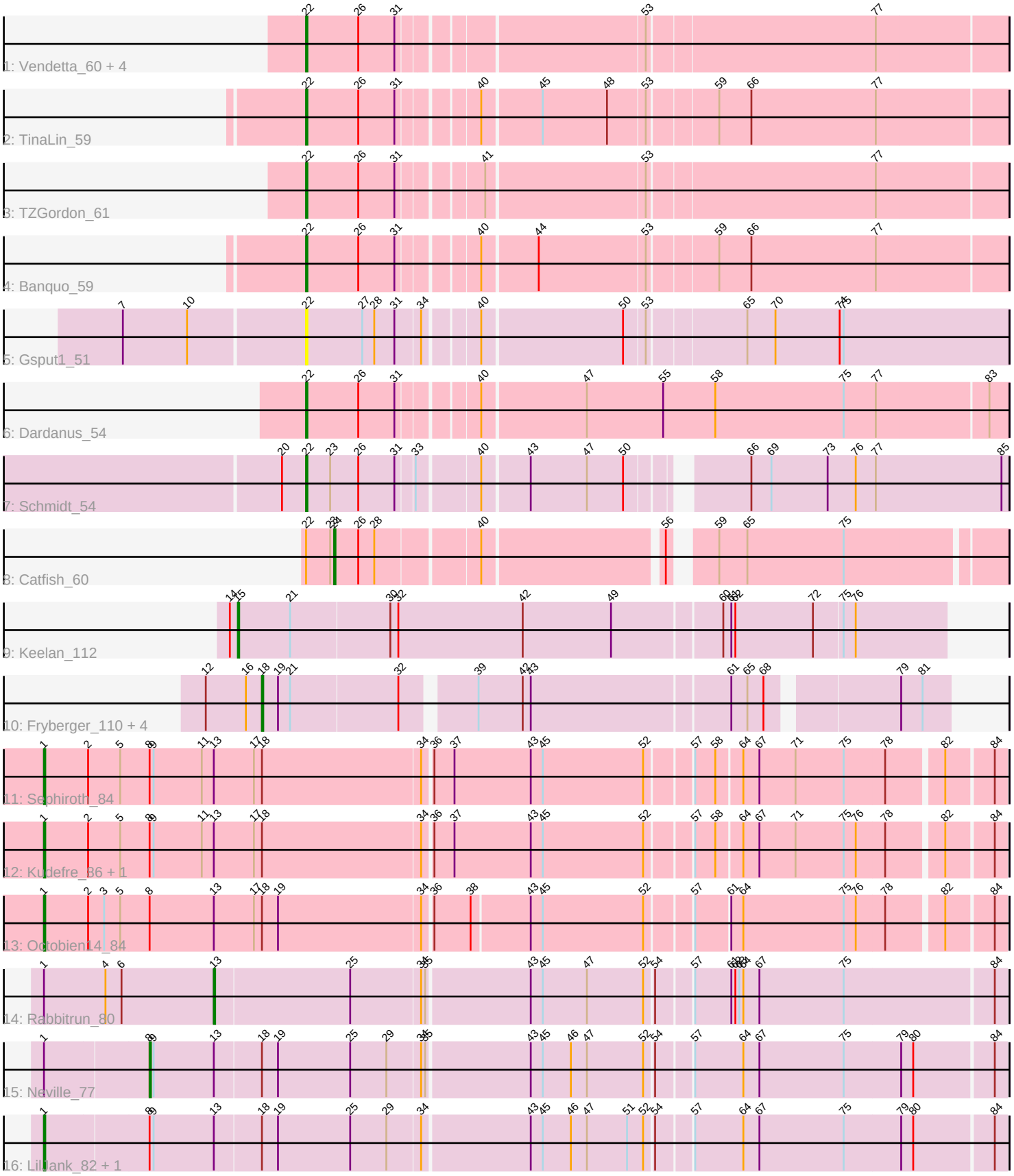
Pham 331163


1: Vendetta_60 + 4
2: TinaLin_59
3: TZGordon_61
4: Banquo_59
5: Gsput1_51
6: Dardanus_54
7: Schmidt_54
8: Catfish_60
9: Keelan_112
10: Fryberger_110 + 4
11: Sephiroth_84
12: Kudefre_86 + 1
13: Octobient4_84
14: Rabbitrun_80
15: Neville_77
16: Lildank_82 + 1

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 331163 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331163 has 26 members, 1 are drafts.

Phages represented in each track:
- Track 1 : Vendetta_60, Goib_61, DinoDaryn_60, Splinter_60, Huffy_60
- Track 2 : TinaLin_59
- Track 3 : TZGordon_61
- Track 4 : Banquo_59
- Track 5 : Gsput1_51
- Track 6 : Dardanus_54
- Track 7 : Schmidt_54
- Track 8 : Catfish_60
- Track 9 : Keelan_112
- Track 10 : Fryberger_110, Volt_114, Guey18_115, Ronaldo_112, Ziko_113
- Track 11 : Sephiroth_84
- Track 12 : Kudefre_86, Syleon_87
- Track 13 : Octobien14_84
- Track 14 : Rabbitrun_80
- Track 15 : Neville_77
- Track 16 : LilJank_82, Trax_80

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

The start number called the most often in the published annotations is 22, it was called in 10 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Banquo_59, Dardanus_54, DinoDaryn_60, Goib_61, Gsput1_51, Huffy_60, Schmidt_54, Splinter_60, TZGordon_61, TinaLin_59, Vendetta_60,

Genes that have the "Most Annotated" start but do not call it:
- Catfish_60,

Genes that do not have the "Most Annotated" start:
- Fryberger_110, Guey18_115, Keelan_112, Kudefre_86, LilJank_82, Neville_77, Octobien14_84, Rabbitrun_80, Ronaldo_112, Sephiroth_84, Syleon_87, Trax_80, Volt_114, Ziko_113,

Summary by start number:

Start 1:
• Found in 8 of 26 (30.8%) of genes in pham
• Manual Annotations of this start: 6 of 25
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Kudefre_86 (DU1), LilJank_82 (DU2), Octobien14_84 (DU1), Sephiroth_84 (DU1), Syleon_87 (DU1), Trax_80 (DU2),

Start 8:
• Found in 7 of 26 (26.9%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Neville_77 (DU2),

Start 13:
• Found in 8 of 26 (30.8%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Rabbitrun_80 (DU2),

Start 15:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Keelan_112 (DP),

Start 18:
• Found in 12 of 26 (46.2%) of genes in pham
• Manual Annotations of this start: 5 of 25
• Called 41.7% of time when present
• Phage (with cluster) where this start called: Fryberger_110 (DP), Guey18_115 (DP), Ronaldo_112 (DP), Volt_114 (DP), Ziko_113 (DP),

Start 22:
• Found in 12 of 26 (46.2%) of genes in pham
• Manual Annotations of this start: 10 of 25
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Banquo_59 (CU1), Dardanus_54 (CU3), DinoDaryn_60 (CU1), Goib_61 (CU1), Gsput1_51 (CU2), Huffy_60 (CU1), Schmidt_54 (CU4), Splinter_60 (CU1), TZGordon_61 (CU1), TinaLin_59 (CU1), Vendetta_60 (CU1),

Start 24:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Catfish_60 (CU5),

Summary by clusters:

There are 8 clusters represented in this pham: CU5, CU4, CU3, CU2, CU1, DU1, DU2, DP,

Info for manual annotations of cluster CU1:
•Start number 22 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 22 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 22 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 24 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DP:
•Start number 15 was manually annotated 1 time for cluster DP.
•Start number 18 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster DU1:
•Start number 1 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 1 was manually annotated 2 times for cluster DU2.
•Start number 8 was manually annotated 1 time for cluster DU2.
•Start number 13 was manually annotated 1 time for cluster DU2.

Gene Information:

Gene: Banquo_59 Start: 37784, Stop: 38278, Start Num: 22
Candidate Starts for Banquo_59:
(Start: 22 @37784 has 10 MA's), (26, 37823), (31, 37850), (40, 37901), (44, 37940), (53, 38018), (59, 38066), (66, 38090), (77, 38183),

Gene: Catfish_60 Start: 39828, Stop: 40286, Start Num: 24
Candidate Starts for Catfish_60:
(Start: 22 @39807 has 10 MA's), (23, 39825), (Start: 24 @39828 has 1 MA's), (26, 39846), (28, 39858), (40, 39930), (56, 40056), (59, 40080), (65, 40101), (75, 40173),

Gene: Dardanus_54 Start: 36041, Stop: 36544, Start Num: 22
Candidate Starts for Dardanus_54:
(Start: 22 @36041 has 10 MA's), (26, 36080), (31, 36107), (40, 36158), (47, 36233), (55, 36290), (58, 36329), (75, 36425), (77, 36449), (83, 36530),

Gene: DinoDaryn_60 Start: 37869, Stop: 38363, Start Num: 22
Candidate Starts for DinoDaryn_60:
(Start: 22 @37869 has 10 MA's), (26, 37908), (31, 37935), (53, 38103), (77, 38268),

Gene: Fryberger_110 Start: 53670, Stop: 54146, Start Num: 18
Candidate Starts for Fryberger_110:
(12, 53628), (16, 53658), (Start: 18 @53670 has 5 MA's), (19, 53682), (21, 53691), (32, 53769), (39, 53817), (42, 53850), (43, 53856), (61, 54000), (65, 54012), (68, 54024), (79, 54111), (81, 54126),

Gene: Goib_61 Start: 38985, Stop: 39479, Start Num: 22
Candidate Starts for Goib_61:
(Start: 22 @38985 has 10 MA's), (26, 39024), (31, 39051), (53, 39219), (77, 39384),

Gene: Gsput1_51 Start: 35855, Stop: 36355, Start Num: 22
Candidate Starts for Gsput1_51:
(7, 35723), (10, 35771), (Start: 22 @35855 has 10 MA's), (27, 35897), (28, 35906), (31, 35921), (34, 35939), (40, 35975), (50, 36077), (53, 36092), (65, 36161), (70, 36182), (74, 36230), (75, 36233),

Gene: Guey18_115 Start: 54993, Stop: 55469, Start Num: 18
Candidate Starts for Guey18_115:
(12, 54951), (16, 54981), (Start: 18 @54993 has 5 MA's), (19, 55005), (21, 55014), (32, 55092), (39, 55140), (42, 55173), (43, 55179), (61, 55323), (65, 55335), (68, 55347), (79, 55434), (81, 55449),

Gene: Huffy_60 Start: 37869, Stop: 38363, Start Num: 22
Candidate Starts for Huffy_60:
(Start: 22 @37869 has 10 MA's), (26, 37908), (31, 37935), (53, 38103), (77, 38268),

Gene: Keelan_112 Start: 54730, Stop: 55245, Start Num: 15
Candidate Starts for Keelan_112:
(14, 54724), (Start: 15 @54730 has 1 MA's), (21, 54769), (30, 54841), (32, 54847), (42, 54940), (49, 55006), (60, 55084), (61, 55090), (62, 55093), (72, 55150), (75, 55171), (76, 55180),

Gene: Kudefre_86 Start: 50305, Stop: 50994, Start Num: 1
Candidate Starts for Kudefre_86:
(Start: 1 @50305 has 6 MA's), (2, 50338), (5, 50362), (Start: 8 @50383 has 1 MA's), (9, 50386), (11, 50422), (Start: 13 @50431 has 1 MA's), (17, 50461), (Start: 18 @50467 has 5 MA's), (34, 50584), (36, 50590), (37, 50605), (43, 50662), (45, 50671), (52, 50746), (57, 50776), (58, 50791), (64, 50809), (67, 50821), (71, 50848), (75, 50884), (76, 50893), (78, 50914), (82, 50953), (84, 50986),

Gene: LilJank_82 Start: 49975, Stop: 50667, Start Num: 1
Candidate Starts for LilJank_82:
(Start: 1 @49975 has 6 MA's), (Start: 8 @50050 has 1 MA's), (9, 50053), (Start: 13 @50098 has 1 MA's), (Start: 18 @50131 has 5 MA's), (19, 50143), (25, 50197), (29, 50224), (34, 50248), (43, 50326), (45, 50335), (46, 50356), (47, 50368), (51, 50398), (52, 50410), (54, 50416), (57, 50440), (64, 50476), (67, 50488), (75, 50551), (79, 50593), (80, 50602), (84, 50659),

Gene: Neville_77 Start: 48709, Stop: 49326, Start Num: 8
Candidate Starts for Neville_77:
(Start: 1 @48634 has 6 MA's), (Start: 8 @48709 has 1 MA's), (9, 48712), (Start: 13 @48757 has 1 MA's), (Start: 18 @48790 has 5 MA's), (19, 48802), (25, 48856), (29, 48883), (34, 48907), (35, 48910), (43, 48985), (45, 48994), (46, 49015), (47, 49027), (52, 49069), (54, 49075), (57, 49099), (64, 49135), (67, 49147), (75, 49210), (79, 49252), (80, 49261), (84, 49318),

Gene: Octobien14_84 Start: 49617, Stop: 50303, Start Num: 1
Candidate Starts for Octobien14_84:
(Start: 1 @49617 has 6 MA's), (2, 49650), (3, 49662), (5, 49674), (Start: 8 @49695 has 1 MA's), (Start: 13 @49743 has 1 MA's), (17, 49773), (Start: 18 @49779 has 5 MA's), (19, 49791), (34, 49896), (36, 49902), (38, 49929), (43, 49971), (45, 49980), (52, 50055), (57, 50085), (61, 50109), (64, 50118), (75, 50193), (76, 50202), (78, 50223), (82, 50262), (84, 50295),

Gene: Rabbitrun_80 Start: 49025, Stop: 49594, Start Num: 13

Candidate Starts for Rabbitrun_80:
(Start: 1 @48899 has 6 MA's), (4, 48944), (6, 48956), (Start: 13 @49025 has 1 MA's), (25, 49124), (34, 49175), (35, 49178), (43, 49253), (45, 49262), (47, 49295), (52, 49337), (54, 49343), (57, 49367), (61, 49394), (62, 49397), (63, 49400), (64, 49403), (67, 49415), (75, 49478), (84, 49586),

Gene: Ronaldo_112 Start: 54575, Stop: 55051, Start Num: 18
Candidate Starts for Ronaldo_112:
(12, 54533), (16, 54563), (Start: 18 @54575 has 5 MA's), (19, 54587), (21, 54596), (32, 54674), (39, 54722), (42, 54755), (43, 54761), (61, 54905), (65, 54917), (68, 54929), (79, 55016), (81, 55031),

Gene: Schmidt_54 Start: 35488, Stop: 35973, Start Num: 22
Candidate Starts for Schmidt_54:
(20, 35470), (Start: 22 @35488 has 10 MA's), (23, 35506), (26, 35527), (31, 35554), (33, 35566), (40, 35608), (43, 35641), (47, 35683), (50, 35710), (66, 35782), (69, 35797), (73, 35839), (76, 35860), (77, 35875), (85, 35968),

Gene: Sephiroth_84 Start: 50477, Stop: 51166, Start Num: 1
Candidate Starts for Sephiroth_84:
(Start: 1 @50477 has 6 MA's), (2, 50510), (5, 50534), (Start: 8 @50555 has 1 MA's), (9, 50558), (11, 50594), (Start: 13 @50603 has 1 MA's), (17, 50633), (Start: 18 @50639 has 5 MA's), (34, 50756), (36, 50762), (37, 50777), (43, 50834), (45, 50843), (52, 50918), (57, 50948), (58, 50963), (64, 50981), (67, 50993), (71, 51020), (75, 51056), (78, 51086), (82, 51125), (84, 51158),

Gene: Splinter_60 Start: 38956, Stop: 39450, Start Num: 22
Candidate Starts for Splinter_60:
(Start: 22 @38956 has 10 MA's), (26, 38995), (31, 39022), (53, 39190), (77, 39355),

Gene: Syleon_87 Start: 50415, Stop: 51104, Start Num: 1
Candidate Starts for Syleon_87:
(Start: 1 @50415 has 6 MA's), (2, 50448), (5, 50472), (Start: 8 @50493 has 1 MA's), (9, 50496), (11, 50532), (Start: 13 @50541 has 1 MA's), (17, 50571), (Start: 18 @50577 has 5 MA's), (34, 50694), (36, 50700), (37, 50715), (43, 50772), (45, 50781), (52, 50856), (57, 50886), (58, 50901), (64, 50919), (67, 50931), (71, 50958), (75, 50994), (76, 51003), (78, 51024), (82, 51063), (84, 51096),

Gene: TZGordon_61 Start: 37845, Stop: 38339, Start Num: 22
Candidate Starts for TZGordon_61:
(Start: 22 @37845 has 10 MA's), (26, 37884), (31, 37911), (41, 37965), (53, 38079), (77, 38244),

Gene: TinaLin_59 Start: 37708, Stop: 38202, Start Num: 22
Candidate Starts for TinaLin_59:
(Start: 22 @37708 has 10 MA's), (26, 37747), (31, 37774), (40, 37825), (45, 37867), (48, 37915), (53, 37942), (59, 37990), (66, 38014), (77, 38107),

Gene: Trax_80 Start: 49599, Stop: 50291, Start Num: 1
Candidate Starts for Trax_80:
(Start: 1 @49599 has 6 MA's), (Start: 8 @49674 has 1 MA's), (9, 49677), (Start: 13 @49722 has 1 MA's), (Start: 18 @49755 has 5 MA's), (19, 49767), (25, 49821), (29, 49848), (34, 49872), (43, 49950), (45, 49959), (46, 49980), (47, 49992), (51, 50022), (52, 50034), (54, 50040), (57, 50064), (64, 50100), (67, 50112), (75, 50175), (79, 50217), (80, 50226), (84, 50283),

Gene: Vendetta_60 Start: 38956, Stop: 39450, Start Num: 22
Candidate Starts for Vendetta_60:
(Start: 22 @38956 has 10 MA's), (26, 38995), (31, 39022), (53, 39190), (77, 39355),

Gene: Volt_114 Start: 54739, Stop: 55215, Start Num: 18
Candidate Starts for Volt_114:
(12, 54697), (16, 54727), (Start: 18 @54739 has 5 MA's), (19, 54751), (21, 54760), (32, 54838), (39, 54886), (42, 54919), (43, 54925), (61, 55069), (65, 55081), (68, 55093), (79, 55180), (81, 55195),

Gene: Ziko_113 Start: 54581, Stop: 55057, Start Num: 18
Candidate Starts for Ziko_113:
(12, 54539), (16, 54569), (Start: 18 @54581 has 5 MA's), (19, 54593), (21, 54602), (32, 54680), (39, 54728), (42, 54761), (43, 54767), (61, 54911), (65, 54923), (68, 54935), (79, 55022), (81, 55037),