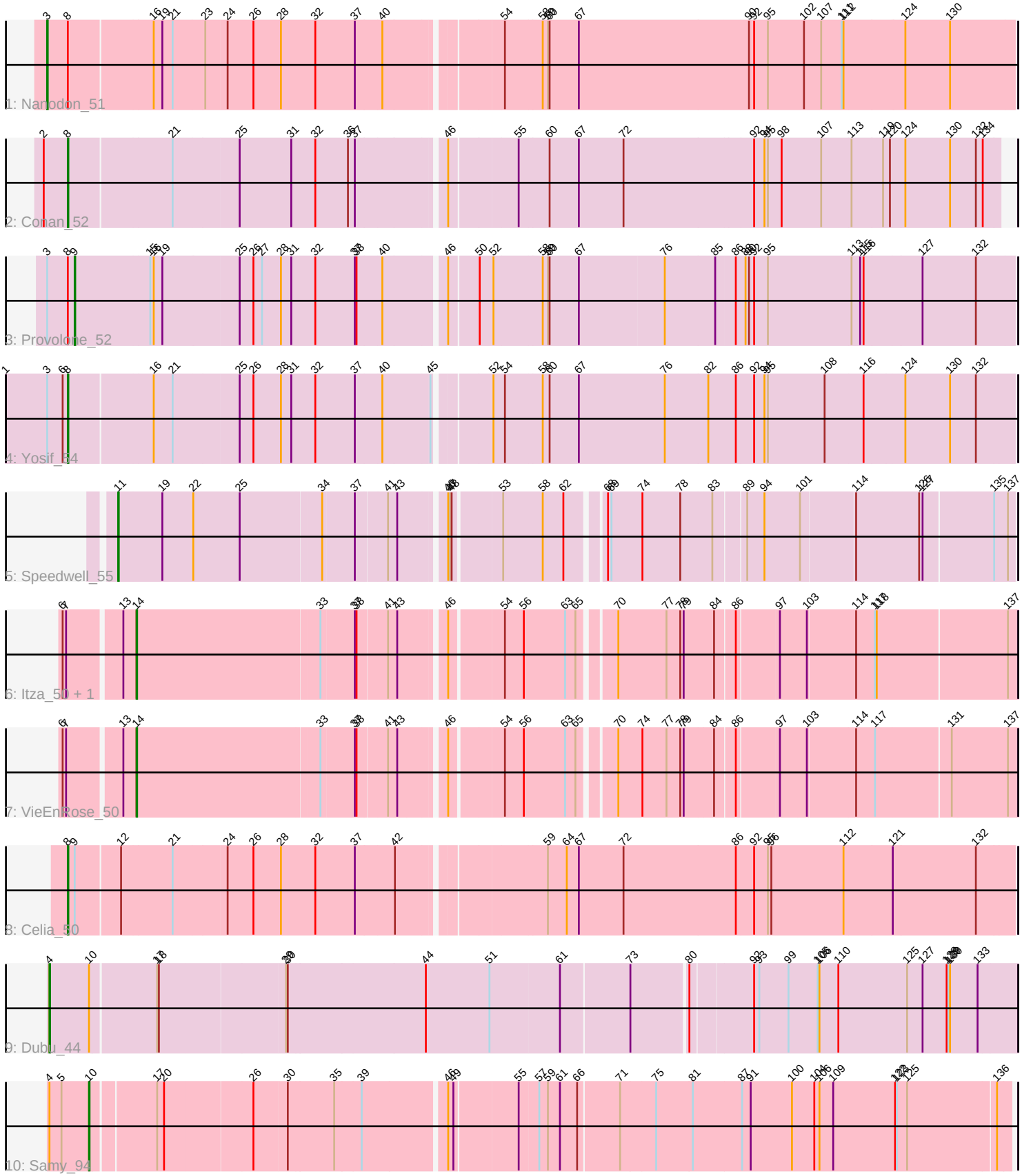
Pham 225048


1: Nanodon_51
2: Conan_52
3: Provolone_52
4: Yosif_54
5: Speedwell_55
6: Itza_50 + 1
7: VieEnRose_50
8: Celia_50
9: Dubu_44
10: Samy_94

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 225048 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 225048 has 11 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Nanodon_51
• Track 2 : Conan_52
• Track 3 : Provolone_52
• Track 4 : Yosif_54
• Track 5 : Speedwell_55
• Track 6 : Itza_50, Urza_50
• Track 7 : VieEnRose_50
• Track 8 : Celia_50
• Track 9 : Dubu_44
• Track 10 : Samy_94

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

The start number called the most often in the published annotations is 14, it was called in 3 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Itza_50, Urza_50, VieEnRose_50,

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

Genes that do not have the "Most Annotated" start:
• Celia_50, Conan_52, Dubu_44, Nanodon_51, Provolone_52, Samy_94, Speedwell_55, Yosif_54,

Summary by start number:

Start 3:
• Found in 3 of 11 (27.3%) of genes in pham

• Manual Annotations of this start: 1 of 11
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Nanodon_51 (BD1),

Start 4:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dubu_44 (BJ),

Start 8:
• Found in 5 of 11 (45.5%) of genes in pham
• Manual Annotations of this start: 3 of 11
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Celia_50 (BD6), Conan_52 (BD3), Yosif_54 (BD3),

Start 9:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Provolone_52 (BD3),

Start 10:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Samy_94 (singleton),

Start 11:
• Found in 1 of 11 (9.1%) 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: Speedwell_55 (BD3),

Start 14:
• Found in 3 of 11 (27.3%) 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: Itza_50 (BD6), Urza_50 (BD6), VieEnRose_50 (BD6),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, BD6, BD1, BJ, BD3,

Info for manual annotations of cluster BD1:
•Start number 3 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD3:
•Start number 8 was manually annotated 2 times for cluster BD3.
•Start number 9 was manually annotated 1 time for cluster BD3.
•Start number 11 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD6:
•Start number 8 was manually annotated 1 time for cluster BD6.
•Start number 14 was manually annotated 3 times for cluster BD6.

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

Gene Information:

Gene: Celia_50 Start: 33292, Stop: 34872, Start Num: 8
Candidate Starts for Celia_50:
(Start: 8 @33292 has 3 MA's), (Start: 9 @33304 has 1 MA's), (12, 33379), (21, 33466), (24, 33556), (26, 33601), (28, 33649), (32, 33709), (37, 33778), (42, 33844), (59, 34075), (64, 34108), (67, 34129), (72, 34207), (86, 34399), (92, 34429), (95, 34453), (96, 34459), (112, 34582), (121, 34663), (132, 34807),

Gene: Conan_52 Start: 36624, Stop: 38183, Start Num: 8
Candidate Starts for Conan_52:
(2, 36582), (Start: 8 @36624 has 3 MA's), (21, 36798), (25, 36909), (31, 36999), (32, 37041), (36, 37098), (37, 37110), (46, 37248), (55, 37359), (60, 37410), (67, 37461), (72, 37539), (92, 37761), (94, 37779), (95, 37785), (98, 37809), (107, 37878), (113, 37929), (119, 37983), (120, 37995), (124, 38019), (130, 38097), (132, 38142), (134, 38154),

Gene: Dubu_44 Start: 35625, Stop: 37253, Start Num: 4
Candidate Starts for Dubu_44:
(Start: 4 @35625 has 1 MA's), (Start: 10 @35694 has 1 MA's), (17, 35805), (18, 35808), (29, 36018), (30, 36021), (44, 36255), (51, 36366), (61, 36486), (73, 36603), (80, 36696), (92, 36798), (93, 36807), (99, 36858), (105, 36909), (106, 36912), (110, 36945), (125, 37065), (127, 37092), (128, 37134), (129, 37137), (130, 37140), (133, 37188),

Gene: Itza_50 Start: 33245, Stop: 34663, Start Num: 14
Candidate Starts for Itza_50:
(6, 33131), (7, 33137), (13, 33224), (Start: 14 @33245 has 3 MA's), (33, 33557), (37, 33611), (38, 33614), (41, 33659), (43, 33674), (46, 33740), (54, 33824), (56, 33857), (63, 33929), (65, 33947), (70, 34001), (77, 34082), (78, 34106), (79, 34112), (84, 34163), (86, 34196), (97, 34265), (103, 34310), (114, 34391), (117, 34424), (118, 34427), (137, 34646),

Gene: Nanodon_51 Start: 34791, Stop: 36407, Start Num: 3
Candidate Starts for Nanodon_51:
(Start: 3 @34791 has 1 MA's), (Start: 8 @34827 has 3 MA's), (16, 34968), (19, 34983), (21, 35001), (23, 35055), (24, 35091), (26, 35136), (28, 35184), (32, 35244), (37, 35313), (40, 35358), (54, 35538), (58, 35601), (59, 35610), (60, 35613), (67, 35664), (90, 35955), (92, 35964), (95, 35988), (102, 36051), (107, 36081), (111, 36114), (112, 36117), (124, 36219), (130, 36297),

Gene: Provolone_52 Start: 36671, Stop: 38251, Start Num: 9
Candidate Starts for Provolone_52:
(Start: 3 @36623 has 1 MA's), (Start: 8 @36659 has 3 MA's), (Start: 9 @36671 has 1 MA's), (15, 36800), (16, 36806), (19, 36821), (25, 36950), (26, 36974), (27, 36989), (28, 37022), (31, 37040), (32, 37082), (37, 37151), (38, 37154), (40, 37196), (46, 37295), (50, 37343), (52, 37364), (58, 37445), (59, 37454), (60, 37457), (67, 37508), (76, 37655), (85, 37742), (86, 37775), (88, 37790), (90, 37796), (92,

37805), (95, 37829), (113, 37973), (115, 37988), (116, 37994), (127, 38093), (132, 38186),

Gene: Samy_94 Start: 56925, Stop: 58457, Start Num: 10
Candidate Starts for Samy_94:
(Start: 4 @56856 has 1 MA's), (5, 56877), (Start: 10 @56925 has 1 MA's), (17, 57030), (20, 57042), (26, 57189), (30, 57246), (35, 57324), (39, 57369), (46, 57507), (49, 57516), (55, 57621), (57, 57654), (59, 57669), (61, 57690), (66, 57720), (71, 57789), (75, 57849), (81, 57912), (87, 57996), (91, 58011), (100, 58083), (104, 58122), (106, 58131), (109, 58155), (122, 58263), (123, 58266), (125, 58284), (136, 58434),

Gene: Speedwell_55 Start: 37976, Stop: 39418, Start Num: 11
Candidate Starts for Speedwell_55:
(Start: 11 @37976 has 1 MA's), (19, 38051), (22, 38105), (25, 38186), (34, 38321), (37, 38372), (41, 38420), (43, 38435), (46, 38501), (47, 38504), (48, 38507), (53, 38582), (58, 38651), (62, 38687), (68, 38744), (69, 38750), (74, 38801), (78, 38867), (83, 38921), (89, 38972), (94, 39002), (101, 39062), (114, 39152), (126, 39260), (127, 39266), (135, 39383), (137, 39407),

Gene: Urza_50 Start: 33266, Stop: 34684, Start Num: 14
Candidate Starts for Urza_50:
(6, 33152), (7, 33158), (13, 33245), (Start: 14 @33266 has 3 MA's), (33, 33578), (37, 33632), (38, 33635), (41, 33680), (43, 33695), (46, 33761), (54, 33845), (56, 33878), (63, 33950), (65, 33968), (70, 34022), (77, 34103), (78, 34127), (79, 34133), (84, 34184), (86, 34217), (97, 34286), (103, 34331), (114, 34412), (117, 34445), (118, 34448), (137, 34667),

Gene: VieEnRose_50 Start: 33329, Stop: 34747, Start Num: 14
Candidate Starts for VieEnRose_50:
(6, 33215), (7, 33221), (13, 33308), (Start: 14 @33329 has 3 MA's), (33, 33641), (37, 33695), (38, 33698), (41, 33743), (43, 33758), (46, 33824), (54, 33908), (56, 33941), (63, 34013), (65, 34031), (70, 34085), (74, 34124), (77, 34166), (78, 34190), (79, 34196), (84, 34247), (86, 34280), (97, 34349), (103, 34394), (114, 34475), (117, 34508), (131, 34634), (137, 34730),

Gene: Yosif_54 Start: 37465, Stop: 39051, Start Num: 8
Candidate Starts for Yosif_54:
(1, 37357), (Start: 3 @37429 has 1 MA's), (6, 37456), (Start: 8 @37465 has 3 MA's), (16, 37606), (21, 37639), (25, 37750), (26, 37774), (28, 37822), (31, 37840), (32, 37882), (37, 37951), (40, 37996), (45, 38074), (52, 38158), (54, 38176), (58, 38239), (60, 38251), (67, 38302), (76, 38452), (82, 38527), (86, 38575), (92, 38605), (94, 38623), (95, 38629), (108, 38728), (116, 38794), (124, 38863), (130, 38941), (132, 38986),