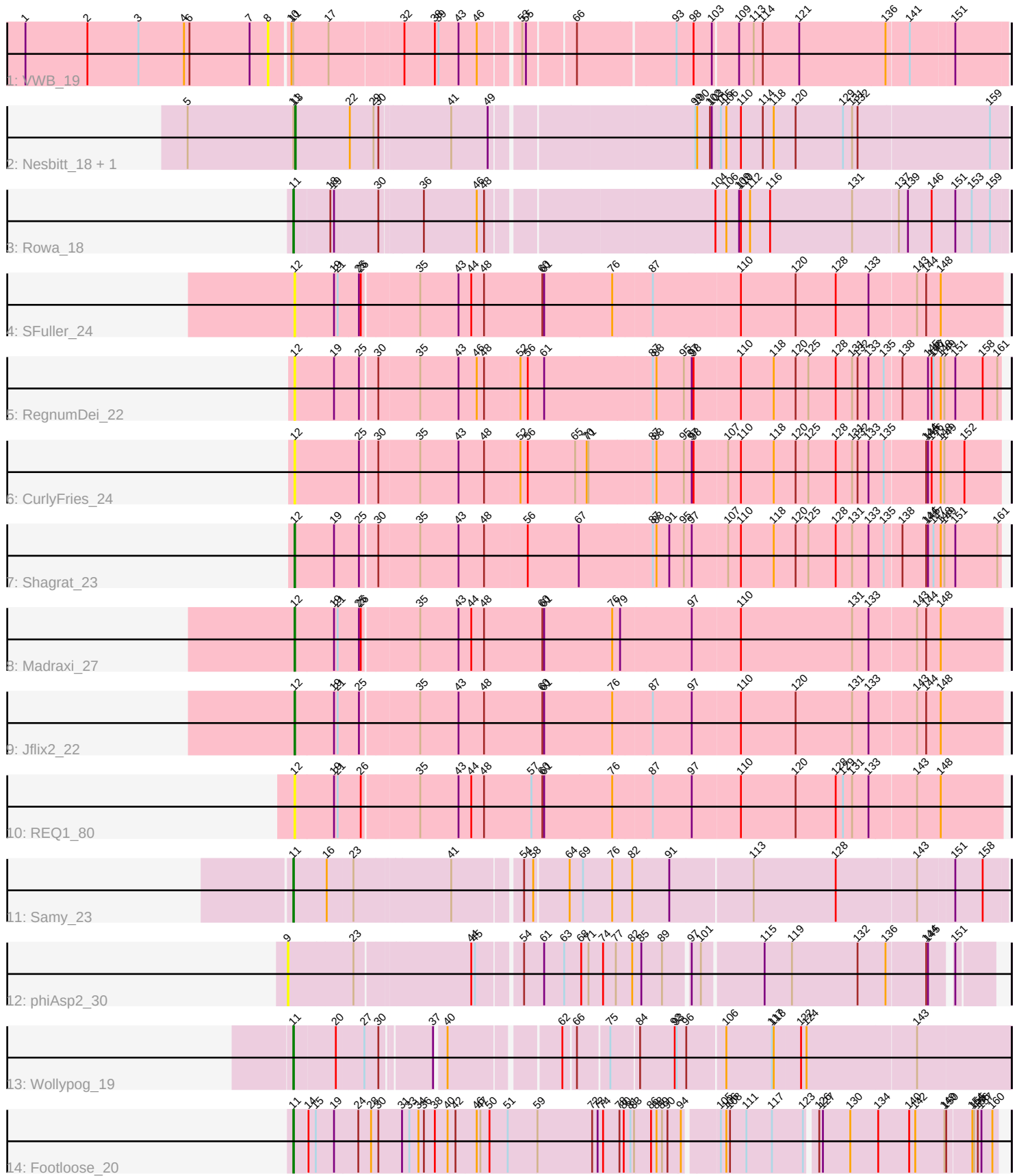


Pham 280995



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 280995 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280995 has 15 members, 6 are drafts.

Phages represented in each track:

- Track 1 : VWB_19
- Track 2 : Nesbitt_18, AbbeyMikolon_18
- Track 3 : Rowa_18
- Track 4 : SFuller_24
- Track 5 : RegnumDei_22
- Track 6 : CurlyFries_24
- Track 7 : Shagrat_23
- Track 8 : Madraxi_27
- Track 9 : Jflif2_22
- Track 10 : REQ1_80
- Track 11 : Samy_23
- Track 12 : phiAsp2_30
- Track 13 : Wollypog_19
- Track 14 : Footloose_20

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

The start number called the most often in the published annotations is 11, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Footloose_20, Rowa_18, Samy_23, Wollypog_19,

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

- AbbeyMikolon_18, Nesbitt_18, VWB_19,

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

- CurlyFries_24, Jflif2_22, Madraxi_27, REQ1_80, RegnumDei_22, SFuller_24, Shagrat_23, phiAsp2_30,

Summary by start number:

Start 8:

- Found in 1 of 15 (6.7%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: VWB_19 (BA),

Start 9:

- Found in 1 of 15 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: phiAsp2_30 (singleton),

Start 11:

- Found in 7 of 15 (46.7%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Footloose_20 (singleton), Rowa_18 (BL), Samy_23 (singleton), Wollypog_19 (singleton),

Start 12:

- Found in 7 of 15 (46.7%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CurlyFries_24 (CF), Jflix2_22 (CF), Madraxi_27 (CF), REQ1_80 (CF), RegnumDei_22 (CF), SFuller_24 (CF), Shagrat_23 (CF),

Start 13:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbeyMikolon_18 (BL), Nesbitt_18 (BL),

Summary by clusters:

There are 4 clusters represented in this pham: BL, singleton, CF, BA,

Info for manual annotations of cluster BL:

- Start number 11 was manually annotated 1 time for cluster BL.
- Start number 13 was manually annotated 2 times for cluster BL.

Info for manual annotations of cluster CF:

- Start number 12 was manually annotated 3 times for cluster CF.

Gene Information:

Gene: AbbeyMikolon_18 Start: 15163, Stop: 16281, Start Num: 13

Candidate Starts for AbbeyMikolon_18:

(5, 14986), (Start: 11 @15160 has 4 MA's), (Start: 13 @15163 has 2 MA's), (22, 15247), (29, 15286), (30, 15292), (41, 15403), (49, 15463), (99, 15775), (100, 15778), (102, 15799), (103, 15802), (105, 15814), (106, 15823), (110, 15847), (114, 15883), (118, 15901), (120, 15937), (129, 16015), (131, 16030), (132, 16039), (159, 16252),

Gene: CurlyFries_24 Start: 20993, Stop: 22120, Start Num: 12

Candidate Starts for CurlyFries_24:

(Start: 12 @20993 has 3 MA's), (25, 21095), (30, 21119), (35, 21185), (43, 21248), (48, 21290), (52, 21347), (56, 21359), (65, 21437), (70, 21455), (71, 21458), (87, 21557), (88, 21563), (95, 21608), (97, 21620), (98, 21623), (107, 21677), (110, 21698), (118, 21752), (120, 21788), (125, 21809), (128, 21854), (131, 21881), (132, 21890), (133, 21908), (135, 21932), (144, 21998), (145, 22001), (146, 22007), (148, 22022), (149, 22028), (152, 22061),

Gene: Footloose_20 Start: 13870, Stop: 14982, Start Num: 11

Candidate Starts for Footloose_20:

(Start: 11 @13870 has 4 MA's), (14, 13891), (15, 13903), (19, 13933), (24, 13972), (28, 13993), (30, 14005), (31, 14044), (33, 14056), (34, 14071), (36, 14080), (38, 14098), (40, 14119), (42, 14131), (46, 14164), (47, 14170), (50, 14185), (51, 14215), (59, 14263), (72, 14353), (73, 14362), (74, 14371), (78, 14398), (80, 14404), (81, 14413), (83, 14419), (86, 14446), (88, 14455), (89, 14464), (90, 14473), (94, 14494), (105, 14545), (106, 14554), (108, 14560), (111, 14587), (117, 14629), (123, 14680), (126, 14695), (127, 14701), (130, 14746), (134, 14791), (140, 14842), (142, 14851), (149, 14899), (150, 14902), (154, 14941), (155, 14944), (156, 14950), (157, 14956), (160, 14974),

Gene: Jflix2_22 Start: 23249, Stop: 24382, Start Num: 12

Candidate Starts for Jflix2_22:

(Start: 12 @23249 has 3 MA's), (19, 23312), (21, 23318), (25, 23351), (35, 23441), (43, 23504), (48, 23546), (60, 23642), (61, 23645), (76, 23756), (87, 23816), (97, 23879), (110, 23957), (120, 24047), (131, 24140), (133, 24167), (143, 24242), (144, 24257), (148, 24281),

Gene: Madraxi_27 Start: 25619, Stop: 26752, Start Num: 12

Candidate Starts for Madraxi_27:

(Start: 12 @25619 has 3 MA's), (19, 25682), (21, 25688), (25, 25721), (26, 25724), (35, 25811), (43, 25874), (44, 25895), (48, 25916), (60, 26012), (61, 26015), (76, 26126), (79, 26138), (97, 26249), (110, 26327), (131, 26510), (133, 26537), (143, 26612), (144, 26627), (148, 26651),

Gene: Nesbitt_18 Start: 15235, Stop: 16353, Start Num: 13

Candidate Starts for Nesbitt_18:

(5, 15058), (Start: 11 @15232 has 4 MA's), (Start: 13 @15235 has 2 MA's), (22, 15319), (29, 15358), (30, 15364), (41, 15475), (49, 15535), (99, 15847), (100, 15850), (102, 15871), (103, 15874), (105, 15886), (106, 15895), (110, 15919), (114, 15955), (118, 15973), (120, 16009), (129, 16087), (131, 16102), (132, 16111), (159, 16324),

Gene: REQ1_80 Start: 46988, Stop: 48121, Start Num: 12

Candidate Starts for REQ1_80:

(Start: 12 @46988 has 3 MA's), (19, 47051), (21, 47057), (26, 47093), (35, 47180), (43, 47243), (44, 47264), (48, 47285), (57, 47363), (60, 47381), (61, 47384), (76, 47495), (87, 47555), (97, 47618), (110, 47696), (120, 47786), (128, 47852), (129, 47864), (131, 47879), (133, 47906), (143, 47981), (148, 48020),

Gene: RegnumDei_22 Start: 21738, Stop: 22865, Start Num: 12

Candidate Starts for RegnumDei_22:

(Start: 12 @21738 has 3 MA's), (19, 21801), (25, 21840), (30, 21864), (35, 21930), (43, 21993), (46, 22023), (48, 22035), (52, 22092), (56, 22104), (61, 22131), (87, 22302), (88, 22308), (95, 22353), (97, 22365), (98, 22368), (110, 22443), (118, 22497), (120, 22533), (125, 22554), (128, 22599), (131, 22626), (132, 22635), (133, 22653), (135, 22677), (138, 22704), (145, 22746), (146, 22752), (147, 22755), (148, 22767), (149, 22773), (151, 22791), (158, 22836), (161, 22860),

Gene: Rowa_18 Start: 15046, Stop: 16164, Start Num: 11

Candidate Starts for Rowa_18:

(Start: 11 @15046 has 4 MA's), (18, 15103), (19, 15109), (30, 15175), (36, 15241), (46, 15328), (48, 15340), (104, 15691), (106, 15709), (109, 15730), (110, 15733), (112, 15748), (116, 15781), (131, 15916), (137, 15988), (139, 16003), (146, 16042), (151, 16081), (153, 16108), (159, 16138),

Gene: SFuller_24 Start: 23845, Stop: 24978, Start Num: 12

Candidate Starts for SFuller_24:

(Start: 12 @23845 has 3 MA's), (19, 23908), (21, 23914), (25, 23947), (26, 23950), (35, 24037), (43, 24100), (44, 24121), (48, 24142), (60, 24238), (61, 24241), (76, 24352), (87, 24412), (110, 24553), (120, 24643), (128, 24709), (133, 24763), (143, 24838), (144, 24853), (148, 24877),

Gene: Samy_23 Start: 18462, Stop: 19574, Start Num: 11

Candidate Starts for Samy_23:

(Start: 11 @18462 has 4 MA's), (16, 18513), (23, 18552), (41, 18702), (54, 18807), (58, 18822), (64, 18876), (69, 18897), (76, 18945), (82, 18978), (91, 19038), (113, 19170), (128, 19305), (143, 19434), (151, 19491), (158, 19536),

Gene: Shagrat_23 Start: 22765, Stop: 23892, Start Num: 12

Candidate Starts for Shagrat_23:

(Start: 12 @22765 has 3 MA's), (19, 22828), (25, 22867), (30, 22891), (35, 22957), (43, 23020), (48, 23062), (56, 23131), (67, 23215), (87, 23329), (88, 23335), (91, 23356), (95, 23380), (97, 23392), (107, 23449), (110, 23470), (118, 23524), (120, 23560), (125, 23581), (128, 23626), (131, 23653), (133, 23680), (135, 23704), (138, 23731), (144, 23770), (145, 23773), (147, 23782), (148, 23794), (149, 23800), (151, 23818), (161, 23887),

Gene: VWB_19 Start: 16658, Stop: 17779, Start Num: 8

Candidate Starts for VWB_19:

(1, 16259), (2, 16361), (3, 16445), (4, 16520), (6, 16529), (7, 16628), (8, 16658), (10, 16688), (Start: 11 @16691 has 4 MA's), (17, 16745), (32, 16853), (38, 16901), (39, 16907), (43, 16940), (46, 16967), (53, 17027), (55, 17033), (66, 17105), (93, 17258), (98, 17285), (103, 17315), (109, 17354), (113, 17378), (114, 17393), (121, 17453), (136, 17594), (141, 17630), (151, 17696),

Gene: Wollypog_19 Start: 17989, Stop: 19074, Start Num: 11

Candidate Starts for Wollypog_19:

(Start: 11 @17989 has 4 MA's), (20, 18055), (27, 18097), (30, 18118), (37, 18193), (40, 18208), (62, 18373), (66, 18391), (75, 18439), (84, 18481), (92, 18538), (93, 18541), (96, 18556), (106, 18616), (117, 18691), (118, 18694), (122, 18736), (124, 18745), (143, 18922),

Gene: phiAsp2_30 Start: 25990, Stop: 27063, Start Num: 9

Candidate Starts for phiAsp2_30:

(9, 25990), (23, 26092), (44, 26269), (45, 26275), (54, 26341), (61, 26374), (63, 26407), (68, 26434), (71, 26446), (74, 26467), (77, 26488), (82, 26515), (85, 26530), (89, 26563), (97, 26602), (101, 26617), (115, 26713), (119, 26758), (132, 26866), (136, 26911), (144, 26974), (145, 26977), (151, 27004),