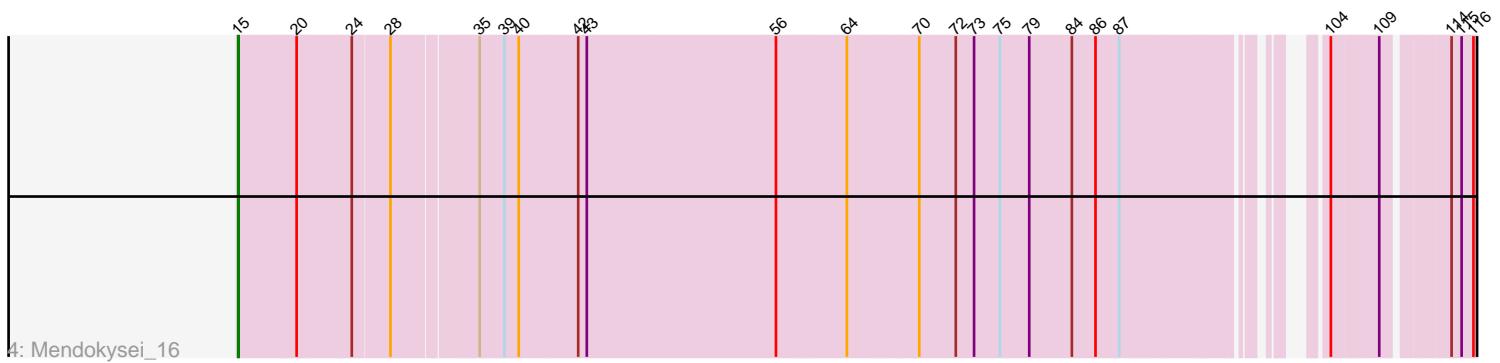
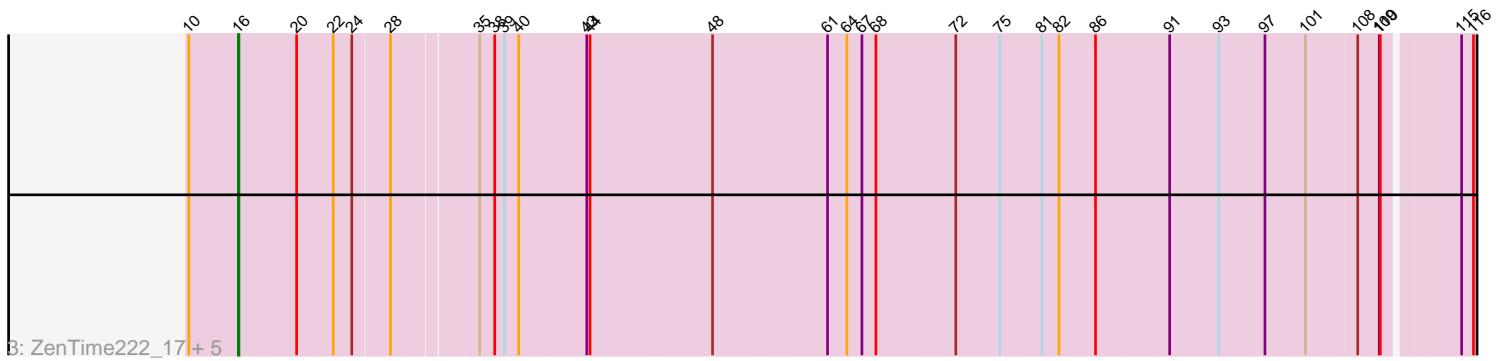
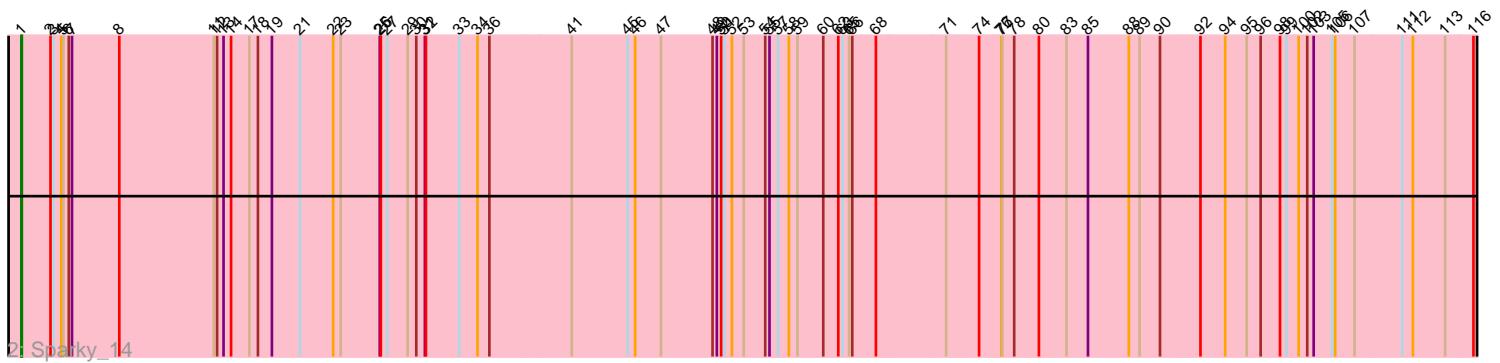
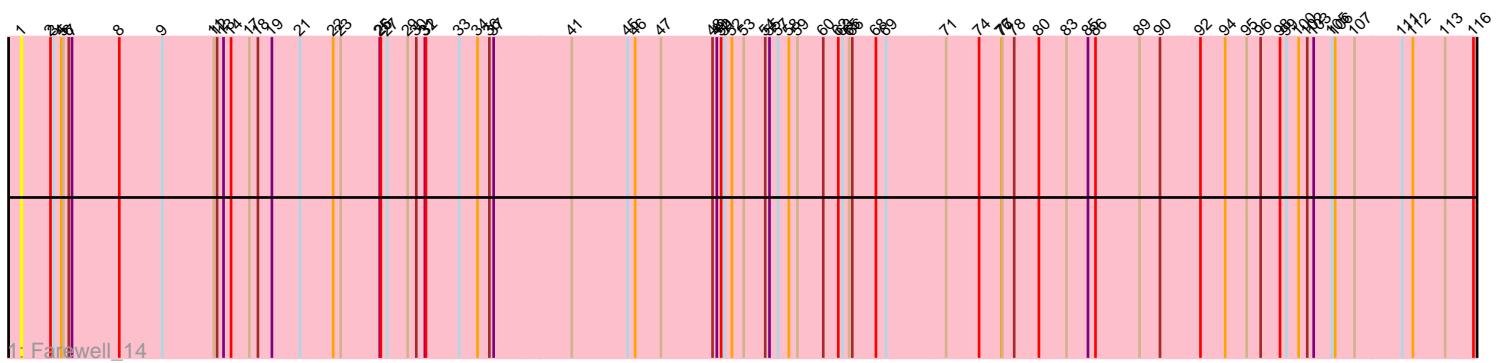


### Zoomed Pham 87793



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 87793 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87793 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Farewell\_14
- Track 2 : Sparky\_14
- Track 3 : ZenTime222\_17, Bernal13\_17, Nairb\_17, Whitty\_17, Ibrahim\_17, RonRayGun\_17
- Track 4 : Mendokysei\_16

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

The start number called the most often in the published annotations is 16, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bernal13\_17, Ibrahim\_17, Nairb\_17, RonRayGun\_17, Whitty\_17, ZenTime222\_17,

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

- 

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

- Farewell\_14, Mendokysei\_16, Sparky\_14,

### **Summary by start number:**

Start 1:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell\_14 (AF), Sparky\_14 (AF),

Start 15:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mendokysei\_16 (T),

### Start 16:

- Found in 6 of 9 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bernal13\_17 (T), Ibrahim\_17 (T), Nairb\_17 (T), RonRayGun\_17 (T), Whitty\_17 (T), ZenTime222\_17 (T),

### Summary by clusters:

There are 2 clusters represented in this pham: T, AF,

Info for manual annotations of cluster AF:

- Start number 1 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster T:

- Start number 15 was manually annotated 1 time for cluster T.
- Start number 16 was manually annotated 6 times for cluster T.

### Gene Information:

Gene: Bernal13\_17 Start: 11932, Stop: 16017, Start Num: 16

Candidate Starts for Bernal13\_17:

(10, 11794), (Start: 16 @11932 has 6 MA's), (20, 12082), (22, 12175), (24, 12223), (28, 12322), (35, 12529), (38, 12562), (39, 12583), (40, 12619), (43, 12808), (44, 12817), (48, 13156), (61, 13471), (64, 13525), (67, 13567), (68, 13603), (72, 13819), (75, 13942), (81, 14056), (82, 14104), (86, 14206), (91, 14392), (93, 14518), (97, 14638), (101, 14746), (108, 14875), (109, 14932), (110, 14935), (115, 15112), (116, 15142), (120, 15229), (122, 15310), (123, 15313), (129, 15583), (130, 15607), (139, 15829), (140, 15868), (142, 15922),

Gene: Farewell\_14 Start: 9733, Stop: 15126, Start Num: 1

Candidate Starts for Farewell\_14:

(Start: 1 @9733 has 1 MA's), (2, 9814), (3, 9823), (4, 9844), (5, 9850), (6, 9865), (7, 9874), (8, 10006), (9, 10126), (11, 10270), (12, 10279), (13, 10294), (14, 10315), (17, 10366), (18, 10390), (19, 10429), (21, 10507), (22, 10600), (23, 10621), (25, 10729), (26, 10732), (27, 10750), (29, 10807), (30, 10831), (31, 10855), (32, 10858), (33, 10951), (34, 11002), (36, 11035), (37, 11047), (41, 11263), (45, 11419), (46, 11440), (47, 11512), (48, 11656), (49, 11668), (50, 11680), (51, 11689), (52, 11710), (53, 11743), (54, 11803), (55, 11815), (57, 11836), (58, 11866), (59, 11890), (60, 11962), (62, 12004), (63, 12016), (65, 12034), (66, 12043), (68, 12109), (69, 12136), (71, 12301), (74, 12388), (76, 12445), (77, 12448), (78, 12481), (80, 12547), (83, 12619), (85, 12679), (86, 12700), (89, 12823), (90, 12880), (92, 12991), (94, 13060), (95, 13120), (96, 13159), (98, 13213), (99, 13231), (100, 13264), (102, 13288), (103, 13306), (105, 13357), (106, 13366), (107, 13420), (111, 13552), (112, 13582), (113, 13672), (116, 13750), (117, 13771), (118, 13810), (119, 13819), (121, 13867), (124, 14050), (125, 14083), (126, 14107), (128, 14200), (131, 14296), (133, 14323), (134, 14362), (136, 14407), (137, 14455), (138, 14515), (141, 14581), (143, 14770), (145, 14839), (146, 14896), (147, 14920), (148, 14947), (149, 14971), (150, 15031), (151, 15058), (152, 15061),

Gene: Ibrahim\_17 Start: 11932, Stop: 16017, Start Num: 16

Candidate Starts for Ibrahim\_17:

(10, 11794), (Start: 16 @11932 has 6 MA's), (20, 12082), (22, 12175), (24, 12223), (28, 12322), (35, 12529), (38, 12562), (39, 12583), (40, 12619), (43, 12808), (44, 12817), (48, 13156), (61, 13471), (64, 13525), (67, 13567), (68, 13603), (72, 13819), (75, 13942), (81, 14056), (82, 14104), (86, 14206), (91,

(14392), (93, 14518), (97, 14638), (101, 14746), (108, 14875), (109, 14932), (110, 14935), (115, 15112), (116, 15142), (120, 15229), (122, 15310), (123, 15313), (129, 15583), (130, 15607), (139, 15829), (140, 15868), (142, 15922),

Gene: Mendokysei\_16 Start: 11901, Stop: 15827, Start Num: 15

Candidate Starts for Mendokysei\_16:

(Start: 15 @11901 has 1 MA's), (20, 12051), (24, 12192), (28, 12291), (35, 12498), (39, 12552), (40, 12588), (42, 12753), (43, 12777), (56, 13299), (64, 13494), (70, 13686), (72, 13788), (73, 13839), (75, 13911), (79, 13992), (84, 14109), (86, 14175), (87, 14232), (104, 14631), (109, 14748), (114, 14901), (115, 14928), (116, 14958), (120, 15045), (127, 15273), (132, 15429), (135, 15483), (140, 15678), (142, 15732),

Gene: Nairb\_17 Start: 11932, Stop: 16017, Start Num: 16

Candidate Starts for Nairb\_17:

(10, 11794), (Start: 16 @11932 has 6 MA's), (20, 12082), (22, 12175), (24, 12223), (28, 12322), (35, 12529), (38, 12562), (39, 12583), (40, 12619), (43, 12808), (44, 12817), (48, 13156), (61, 13471), (64, 13525), (67, 13567), (68, 13603), (72, 13819), (75, 13942), (81, 14056), (82, 14104), (86, 14206), (91, 14392), (93, 14518), (97, 14638), (101, 14746), (108, 14875), (109, 14932), (110, 14935), (115, 15112), (116, 15142), (120, 15229), (122, 15310), (123, 15313), (129, 15583), (130, 15607), (139, 15829), (140, 15868), (142, 15922),

Gene: RonRayGun\_17 Start: 11932, Stop: 16017, Start Num: 16

Candidate Starts for RonRayGun\_17:

(10, 11794), (Start: 16 @11932 has 6 MA's), (20, 12082), (22, 12175), (24, 12223), (28, 12322), (35, 12529), (38, 12562), (39, 12583), (40, 12619), (43, 12808), (44, 12817), (48, 13156), (61, 13471), (64, 13525), (67, 13567), (68, 13603), (72, 13819), (75, 13942), (81, 14056), (82, 14104), (86, 14206), (91, 14392), (93, 14518), (97, 14638), (101, 14746), (108, 14875), (109, 14932), (110, 14935), (115, 15112), (116, 15142), (120, 15229), (122, 15310), (123, 15313), (129, 15583), (130, 15607), (139, 15829), (140, 15868), (142, 15922),

Gene: Sparky\_14 Start: 9734, Stop: 15127, Start Num: 1

Candidate Starts for Sparky\_14:

(Start: 1 @9734 has 1 MA's), (2, 9815), (3, 9824), (4, 9845), (5, 9851), (6, 9866), (7, 9875), (8, 10007), (11, 10271), (12, 10280), (13, 10295), (14, 10316), (17, 10367), (18, 10391), (19, 10430), (21, 10508), (22, 10601), (23, 10622), (25, 10730), (26, 10733), (27, 10751), (29, 10808), (30, 10832), (31, 10856), (32, 10859), (33, 10952), (34, 11003), (36, 11036), (41, 11264), (45, 11420), (46, 11441), (47, 11513), (48, 11657), (49, 11669), (50, 11681), (51, 11690), (52, 11711), (53, 11744), (54, 11804), (55, 11816), (57, 11837), (58, 11867), (59, 11891), (60, 11963), (62, 12005), (63, 12017), (65, 12035), (66, 12044), (68, 12110), (71, 12302), (74, 12389), (76, 12446), (77, 12449), (78, 12482), (80, 12548), (83, 12620), (85, 12680), (88, 12794), (89, 12824), (90, 12881), (92, 12992), (94, 13061), (95, 13121), (96, 13160), (98, 13214), (99, 13232), (100, 13265), (102, 13289), (103, 13307), (105, 13358), (106, 13367), (107, 13421), (111, 13553), (112, 13583), (113, 13673), (116, 13751), (117, 13772), (118, 13811), (119, 13820), (121, 13868), (124, 14051), (125, 14084), (126, 14108), (128, 14201), (131, 14297), (133, 14324), (134, 14363), (136, 14408), (137, 14456), (138, 14516), (141, 14582), (143, 14771), (144, 14804), (145, 14840), (146, 14897), (147, 14921), (148, 14948), (149, 14972), (150, 15032), (151, 15059), (152, 15062),

Gene: Whitty\_17 Start: 11932, Stop: 16017, Start Num: 16

Candidate Starts for Whitty\_17:

(10, 11794), (Start: 16 @11932 has 6 MA's), (20, 12082), (22, 12175), (24, 12223), (28, 12322), (35, 12529), (38, 12562), (39, 12583), (40, 12619), (43, 12808), (44, 12817), (48, 13156), (61, 13471), (64, 13525), (67, 13567), (68, 13603), (72, 13819), (75, 13942), (81, 14056), (82, 14104), (86, 14206), (91, 14392), (93, 14518), (97, 14638), (101, 14746), (108, 14875), (109, 14932), (110, 14935), (115,

(15112), (116, 15142), (120, 15229), (122, 15310), (123, 15313), (129, 15583), (130, 15607), (139, 15829), (140, 15868), (142, 15922),

Gene: ZenTime222\_17 Start: 11932, Stop: 16017, Start Num: 16

Candidate Starts for ZenTime222\_17:

(10, 11794), (Start: 16 @11932 has 6 MA's), (20, 12082), (22, 12175), (24, 12223), (28, 12322), (35, 12529), (38, 12562), (39, 12583), (40, 12619), (43, 12808), (44, 12817), (48, 13156), (61, 13471), (64, 13525), (67, 13567), (68, 13603), (72, 13819), (75, 13942), (81, 14056), (82, 14104), (86, 14206), (91, 14392), (93, 14518), (97, 14638), (101, 14746), (108, 14875), (109, 14932), (110, 14935), (115, 15112), (116, 15142), (120, 15229), (122, 15310), (123, 15313), (129, 15583), (130, 15607), (139, 15829), (140, 15868), (142, 15922),