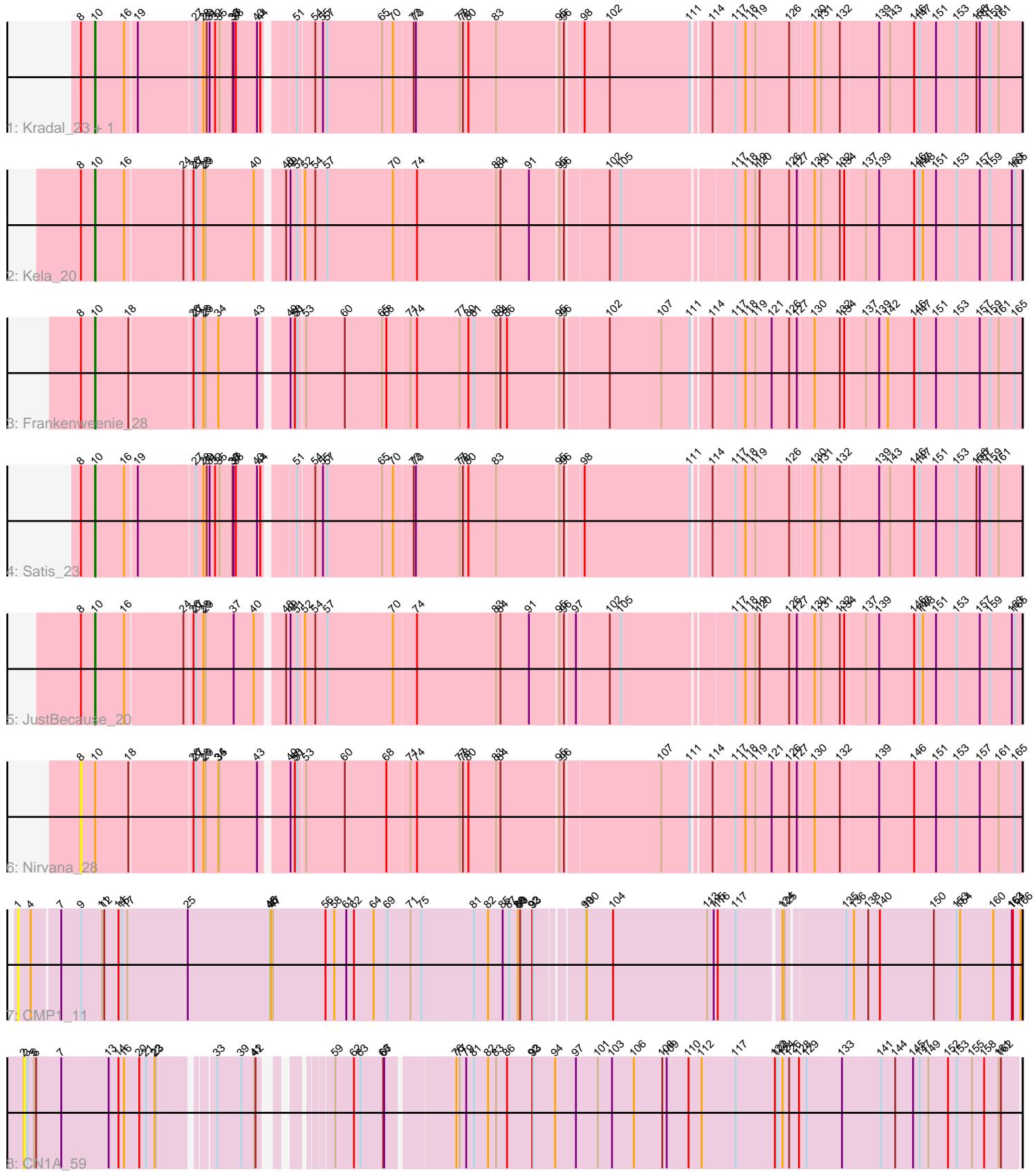


Pham 87822



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 87822 Report

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

Pham number 87822 has 9 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Kradal_23, EhyElimayoE_23
- Track 2 : Kela_20
- Track 3 : Frankenweenie_28
- Track 4 : Satis_23
- Track 5 : JustBecause_20
- Track 6 : Nirvana_28
- Track 7 : CMP1_11
- Track 8 : CN1A_59

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

The start number called the most often in the published annotations is 10, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE_23, Frankenweenie_28, JustBecause_20, Kela_20, Kradal_23, Satis_23,

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

- Nirvana_28,

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

- CMP1_11, CN1A_59,

Summary by start number:

Start 1:

- Found in 1 of 9 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CMP1_11 (singleton),

Start 2:

- Found in 1 of 9 (11.1%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CN1A_59 (singleton),

Start 8:

- Found in 7 of 9 (77.8%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Nirvana_28 (BM),

Start 10:

- Found in 7 of 9 (77.8%) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 85.7% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_23 (BM), Frankenweenie_28 (BM), JustBecause_20 (BM), Kela_20 (BM), Kradal_23 (BM), Satis_23 (BM),

Summary by clusters:

There are 2 clusters represented in this pham: BM, singleton,

Info for manual annotations of cluster BM:

- Start number 10 was manually annotated 6 times for cluster BM.

Gene Information:

Gene: CMP1_11 Start: 6203, Stop: 8821, Start Num: 1

Candidate Starts for CMP1_11:

(1, 6203), (4, 6236), (7, 6308), (9, 6359), (11, 6410), (12, 6416), (14, 6455), (15, 6464), (17, 6479), (25, 6641), (45, 6866), (46, 6869), (47, 6875), (56, 7019), (58, 7043), (61, 7076), (62, 7097), (64, 7148), (69, 7184), (71, 7247), (75, 7277), (81, 7415), (82, 7454), (85, 7493), (87, 7511), (88, 7535), (89, 7538), (90, 7541), (92, 7574), (93, 7577), (99, 7694), (100, 7697), (104, 7769), (113, 8024), (115, 8042), (116, 8048), (117, 8087), (124, 8195), (125, 8201), (135, 8351), (136, 8372), (138, 8411), (140, 8441), (150, 8588), (153, 8651), (154, 8660), (160, 8747), (163, 8792), (164, 8795), (166, 8816),

Gene: CN1A_59 Start: 49528, Stop: 47000, Start Num: 2

Candidate Starts for CN1A_59:

(2, 49528), (3, 49519), (5, 49501), (6, 49495), (7, 49426), (13, 49300), (14, 49273), (16, 49258), (20, 49216), (21, 49198), (22, 49174), (23, 49171), (33, 49048), (39, 48982), (41, 48946), (42, 48943), (59, 48829), (62, 48778), (63, 48760), (66, 48700), (67, 48697), (76, 48529), (77, 48520), (79, 48502), (81, 48481), (82, 48442), (83, 48421), (86, 48391), (92, 48322), (93, 48319), (94, 48259), (97, 48202), (101, 48142), (103, 48103), (106, 48043), (108, 47965), (109, 47953), (110, 47893), (112, 47857), (117, 47764), (122, 47659), (123, 47653), (124, 47638), (126, 47620), (128, 47593), (129, 47572), (133, 47476), (141, 47371), (144, 47332), (145, 47284), (147, 47266), (149, 47242), (152, 47188), (153, 47164), (155, 47122), (158, 47089), (161, 47050), (162, 47044),

Gene: EhyElimayoE_23 Start: 10433, Stop: 12799, Start Num: 10

Candidate Starts for EhyElimayoE_23:

(8, 10394), (Start: 10 @10433 has 6 MA's), (16, 10508), (19, 10538), (27, 10685), (28, 10706), (30, 10715), (31, 10721), (32, 10736), (35, 10745), (36, 10781), (37, 10784), (38, 10790), (43, 10847), (44,

(10856), (51, 10925), (54, 10967), (55, 10985), (57, 10997), (65, 11144), (70, 11171), (72, 11222), (73, 11228), (77, 11345), (78, 11354), (80, 11369), (83, 11444), (95, 11600), (96, 11612), (98, 11654), (102, 11720), (111, 11939), (114, 11981), (117, 12035), (118, 12062), (119, 12089), (126, 12182), (130, 12245), (131, 12263), (132, 12311), (139, 12413), (143, 12443), (146, 12509), (147, 12524), (151, 12569), (153, 12623), (156, 12677), (157, 12686), (159, 12713), (161, 12737),

Gene: Frankenweenie_28 Start: 12291, Stop: 14660, Start Num: 10

Candidate Starts for Frankenweenie_28:

(8, 12252), (Start: 10 @12291 has 6 MA's), (18, 12378), (26, 12537), (27, 12543), (28, 12564), (29, 12570), (34, 12600), (43, 12705), (49, 12765), (50, 12777), (51, 12783), (53, 12801), (60, 12906), (65, 13005), (68, 13017), (71, 13074), (74, 13092), (77, 13206), (80, 13230), (81, 13245), (83, 13305), (84, 13317), (86, 13335), (95, 13461), (96, 13473), (102, 13581), (107, 13722), (111, 13800), (114, 13842), (117, 13896), (118, 13923), (119, 13950), (121, 13995), (126, 14043), (127, 14064), (130, 14106), (132, 14172), (134, 14184), (137, 14238), (139, 14274), (142, 14298), (146, 14370), (147, 14385), (151, 14430), (153, 14484), (157, 14547), (159, 14574), (161, 14598), (165, 14643),

Gene: JustBecause_20 Start: 9558, Stop: 11927, Start Num: 10

Candidate Starts for JustBecause_20:

(8, 9519), (Start: 10 @9558 has 6 MA's), (16, 9633), (24, 9783), (26, 9804), (27, 9810), (28, 9831), (29, 9837), (37, 9909), (40, 9963), (48, 10026), (49, 10032), (51, 10050), (52, 10065), (54, 10092), (57, 10125), (70, 10299), (74, 10359), (83, 10572), (84, 10584), (91, 10662), (95, 10728), (96, 10740), (97, 10764), (102, 10848), (105, 10878), (117, 11163), (118, 11190), (119, 11217), (120, 11229), (126, 11310), (127, 11331), (130, 11373), (131, 11391), (132, 11439), (134, 11451), (137, 11505), (139, 11541), (146, 11637), (147, 11652), (148, 11661), (151, 11697), (153, 11751), (157, 11814), (159, 11841), (163, 11901), (165, 11910),

Gene: Kela_20 Start: 9549, Stop: 11918, Start Num: 10

Candidate Starts for Kela_20:

(8, 9510), (Start: 10 @9549 has 6 MA's), (16, 9624), (24, 9774), (26, 9795), (27, 9801), (28, 9822), (29, 9828), (40, 9954), (48, 10017), (49, 10023), (51, 10041), (52, 10056), (54, 10083), (57, 10116), (70, 10290), (74, 10350), (83, 10563), (84, 10575), (91, 10653), (95, 10719), (96, 10731), (102, 10839), (105, 10869), (117, 11154), (118, 11181), (119, 11208), (120, 11220), (126, 11301), (127, 11322), (130, 11364), (131, 11382), (132, 11430), (134, 11442), (137, 11496), (139, 11532), (146, 11628), (147, 11643), (148, 11652), (151, 11688), (153, 11742), (157, 11805), (159, 11832), (163, 11892), (165, 11901),

Gene: Kradal_23 Start: 10433, Stop: 12799, Start Num: 10

Candidate Starts for Kradal_23:

(8, 10394), (Start: 10 @10433 has 6 MA's), (16, 10508), (19, 10538), (27, 10685), (28, 10706), (30, 10715), (31, 10721), (32, 10736), (35, 10745), (36, 10781), (37, 10784), (38, 10790), (43, 10847), (44, 10856), (51, 10925), (54, 10967), (55, 10985), (57, 10997), (65, 11144), (70, 11171), (72, 11222), (73, 11228), (77, 11345), (78, 11354), (80, 11369), (83, 11444), (95, 11600), (96, 11612), (98, 11654), (102, 11720), (111, 11939), (114, 11981), (117, 12035), (118, 12062), (119, 12089), (126, 12182), (130, 12245), (131, 12263), (132, 12311), (139, 12413), (143, 12443), (146, 12509), (147, 12524), (151, 12569), (153, 12623), (156, 12677), (157, 12686), (159, 12713), (161, 12737),

Gene: Nirvana_28 Start: 12455, Stop: 14863, Start Num: 8

Candidate Starts for Nirvana_28:

(8, 12455), (Start: 10 @12494 has 6 MA's), (18, 12581), (26, 12740), (27, 12746), (28, 12767), (29, 12773), (34, 12803), (35, 12806), (43, 12908), (49, 12968), (50, 12980), (51, 12986), (53, 13004), (60, 13109), (68, 13220), (71, 13277), (74, 13295), (77, 13409), (78, 13418), (80, 13433), (83, 13508), (84, 13520), (95, 13664), (96, 13676), (107, 13925), (111, 14003), (114, 14045), (117, 14099), (118, 14126), (119, 14153), (121, 14198), (126, 14246), (127, 14267), (130, 14309), (132, 14375), (139,

14477), (146, 14573), (151, 14633), (153, 14687), (157, 14750), (161, 14801), (165, 14846),

Gene: Satis_23 Start: 10429, Stop: 12795, Start Num: 10

Candidate Starts for Satis_23:

(8, 10390), (Start: 10 @10429 has 6 MA's), (16, 10504), (19, 10534), (27, 10681), (28, 10702), (30, 10711), (31, 10717), (32, 10732), (35, 10741), (36, 10777), (37, 10780), (38, 10786), (43, 10843), (44, 10852), (51, 10921), (54, 10963), (55, 10981), (57, 10993), (65, 11140), (70, 11167), (72, 11218), (73, 11224), (77, 11341), (78, 11350), (80, 11365), (83, 11440), (95, 11596), (96, 11608), (98, 11650), (111, 11935), (114, 11977), (117, 12031), (118, 12058), (119, 12085), (126, 12178), (130, 12241), (131, 12259), (132, 12307), (139, 12409), (143, 12439), (146, 12505), (147, 12520), (151, 12565), (153, 12619), (156, 12673), (157, 12682), (159, 12709), (161, 12733),