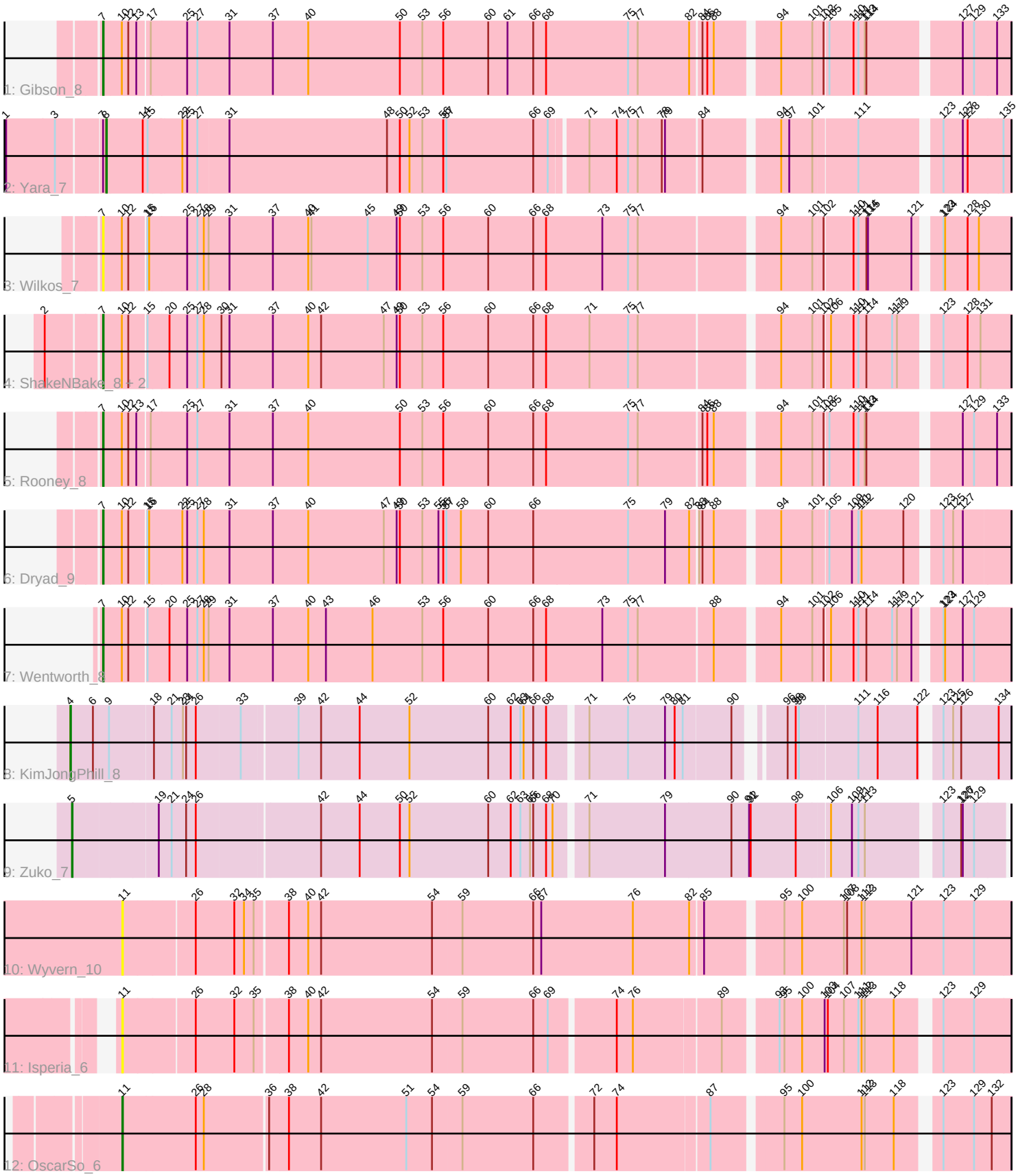
Pham 5174


1: Gibson_8
2: Yara_7
3: Wilkos_7
4: ShakeNBake_8 + 2
5: Rooney_8
6: Dryad_9
7: Wentworth_8
8: KimJongPhill_8
9: Zuko_7
10: Wyvern_10
11: Isperia_6
12: OscarSo_6

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 5174 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5174 has 14 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Gibson_8
• Track 2 : Yara_7
• Track 3 : Wilkos_7
• Track 4 : ShakeNBake_8, Lizz_8, PHTowN_8
• Track 5 : Rooney_8
• Track 6 : Dryad_9
• Track 7 : Wentworth_8
• Track 8 : KimJongPhill_8
• Track 9 : Zuko_7
• Track 10 : Wyvern_10
• Track 11 : Isperia_6
• Track 12 : OscarSo_6

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

The start number called the most often in the published annotations is 7, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dryad_9, Gibson_8, Lizz_8, PHTowN_8, Rooney_8, ShakeNBake_8, Wentworth_8, Wilkos_7,

Genes that have the "Most Annotated" start but do not call it:
• Yara_7,

Genes that do not have the "Most Annotated" start:
• Isperia_6, KimJongPhill_8, OscarSo_6, Wyvern_10, Zuko_7,

Summary by start number:

Start 4:
• Found in 1 of 14 (7.1%) 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: KimJongPhill_8 (BR),

Start 5:
• Found in 1 of 14 (7.1%) 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: Zuko_7 (BR),

Start 7:
• Found in 9 of 14 (64.3%) of genes in pham
• Manual Annotations of this start: 7 of 11
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Dryad_9 (BN), Gibson_8 (BN), Lizz_8 (BN), PHTowN_8 (BN), Rooney_8 (BN), ShakeNBake_8 (BN), Wentworth_8 (BN), Wilkos_7 (BN),

Start 8:
• Found in 1 of 14 (7.1%) 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: Yara_7 (BN),

Start 11:
• Found in 3 of 14 (21.4%) 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: Isperia_6 (GJ), OscarSo_6 (GJ), Wyvern_10 (GJ),

Summary by clusters:

There are 3 clusters represented in this pham: BN, GJ, BR,

Info for manual annotations of cluster BN:
•Start number 7 was manually annotated 7 times for cluster BN.
•Start number 8 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BR:
•Start number 4 was manually annotated 1 time for cluster BR.
•Start number 5 was manually annotated 1 time for cluster BR.

Info for manual annotations of cluster GJ:
•Start number 11 was manually annotated 1 time for cluster GJ.

Gene Information:

Gene: Dryad_9 Start: 2881, Stop: 4485, Start Num: 7
Candidate Starts for Dryad_9:
(Start: 7 @2881 has 7 MA's), (10, 2914), (12, 2926), (15, 2956), (16, 2959), (22, 3019), (25, 3028), (27, 3046), (28, 3058), (31, 3106), (37, 3187), (40, 3253), (47, 3394), (49, 3418), (50, 3424), (53, 3466), (55, 3496), (56, 3505), (57, 3511), (58, 3535), (60, 3586), (66, 3670), (75, 3844), (79, 3913), (82,

3958), (83, 3970), (84, 3976), (88, 3997), (94, 4099), (101, 4156), (105, 4180), (109, 4219), (111, 4231), (112, 4237), (120, 4312), (123, 4363), (125, 4381), (127, 4399),

Gene: Gibson_8 Start: 2809, Stop: 4416, Start Num: 7
Candidate Starts for Gibson_8:
(Start: 7 @2809 has 7 MA's), (10, 2842), (12, 2854), (13, 2869), (17, 2890), (25, 2956), (27, 2974), (31, 3034), (37, 3115), (40, 3181), (50, 3352), (53, 3394), (56, 3433), (60, 3514), (61, 3550), (66, 3598), (68, 3622), (75, 3775), (77, 3793), (82, 3889), (84, 3907), (86, 3916), (88, 3928), (94, 4030), (101, 4087), (102, 4105), (105, 4111), (110, 4153), (111, 4162), (113, 4174), (114, 4177), (127, 4330), (129, 4351), (133, 4393),

Gene: Isperia_6 Start: 1639, Stop: 3192, Start Num: 11
Candidate Starts for Isperia_6:
(Start: 11 @1639 has 1 MA's), (26, 1768), (32, 1840), (35, 1876), (38, 1930), (40, 1966), (42, 1990), (54, 2197), (59, 2251), (66, 2383), (69, 2410), (74, 2524), (76, 2554), (89, 2710), (93, 2794), (95, 2803), (100, 2836), (103, 2878), (104, 2884), (107, 2914), (111, 2941), (112, 2947), (113, 2953), (118, 3007), (123, 3070), (129, 3127),

Gene: KimJongPhill_8 Start: 4350, Stop: 5975, Start Num: 4
Candidate Starts for KimJongPhill_8:
(Start: 4 @4350 has 1 MA's), (6, 4392), (9, 4419), (18, 4497), (21, 4530), (23, 4551), (24, 4557), (26, 4575), (33, 4656), (39, 4752), (42, 4794), (44, 4866), (52, 4959), (60, 5106), (62, 5148), (63, 5166), (64, 5172), (66, 5190), (68, 5214), (71, 5277), (75, 5349), (79, 5418), (80, 5436), (81, 5451), (90, 5538), (96, 5604), (98, 5619), (99, 5625), (111, 5724), (116, 5757), (122, 5829), (123, 5850), (125, 5868), (126, 5883), (134, 5952),

Gene: Lizz_8 Start: 2765, Stop: 4372, Start Num: 7
Candidate Starts for Lizz_8:
(2, 2672), (Start: 7 @2765 has 7 MA's), (10, 2798), (12, 2810), (15, 2840), (20, 2879), (25, 2912), (27, 2930), (28, 2942), (30, 2975), (31, 2990), (37, 3071), (40, 3137), (42, 3161), (47, 3278), (49, 3302), (50, 3308), (53, 3350), (56, 3389), (60, 3470), (66, 3554), (68, 3578), (71, 3659), (75, 3731), (77, 3749), (94, 3986), (101, 4043), (102, 4061), (106, 4070), (110, 4109), (111, 4118), (114, 4133), (117, 4178), (119, 4187), (123, 4250), (128, 4295), (131, 4319),

Gene: OscarSo_6 Start: 1928, Stop: 3490, Start Num: 11
Candidate Starts for OscarSo_6:
(Start: 11 @1928 has 1 MA's), (26, 2063), (28, 2078), (36, 2192), (38, 2228), (42, 2288), (51, 2447), (54, 2495), (59, 2549), (66, 2681), (72, 2780), (74, 2822), (87, 2987), (95, 3101), (100, 3134), (112, 3242), (113, 3248), (118, 3302), (123, 3365), (129, 3422), (132, 3455),

Gene: PHTowN_8 Start: 2765, Stop: 4372, Start Num: 7
Candidate Starts for PHTowN_8:
(2, 2672), (Start: 7 @2765 has 7 MA's), (10, 2798), (12, 2810), (15, 2840), (20, 2879), (25, 2912), (27, 2930), (28, 2942), (30, 2975), (31, 2990), (37, 3071), (40, 3137), (42, 3161), (47, 3278), (49, 3302), (50, 3308), (53, 3350), (56, 3389), (60, 3470), (66, 3554), (68, 3578), (71, 3659), (75, 3731), (77, 3749), (94, 3986), (101, 4043), (102, 4061), (106, 4070), (110, 4109), (111, 4118), (114, 4133), (117, 4178), (119, 4187), (123, 4250), (128, 4295), (131, 4319),

Gene: Rooney_8 Start: 2809, Stop: 4416, Start Num: 7
Candidate Starts for Rooney_8:
(Start: 7 @2809 has 7 MA's), (10, 2842), (12, 2854), (13, 2869), (17, 2890), (25, 2956), (27, 2974), (31, 3034), (37, 3115), (40, 3181), (50, 3352), (53, 3394), (56, 3433), (60, 3514), (66, 3598), (68, 3622), (75, 3775), (77, 3793), (84, 3907), (86, 3916), (88, 3928), (94, 4030), (101, 4087), (102, 4105), (105,

4111), (110, 4153), (111, 4162), (113, 4174), (114, 4177), (127, 4330), (129, 4351), (133, 4393),

Gene: ShakeNBake_8 Start: 2765, Stop: 4372, Start Num: 7
Candidate Starts for ShakeNBake_8:
(2, 2672), (Start: 7 @2765 has 7 MA's), (10, 2798), (12, 2810), (15, 2840), (20, 2879), (25, 2912), (27, 2930), (28, 2942), (30, 2975), (31, 2990), (37, 3071), (40, 3137), (42, 3161), (47, 3278), (49, 3302), (50, 3308), (53, 3350), (56, 3389), (60, 3470), (66, 3554), (68, 3578), (71, 3659), (75, 3731), (77, 3749), (94, 3986), (101, 4043), (102, 4061), (106, 4070), (110, 4109), (111, 4118), (114, 4133), (117, 4178), (119, 4187), (123, 4250), (128, 4295), (131, 4319),

Gene: Wentworth_8 Start: 2554, Stop: 4161, Start Num: 7
Candidate Starts for Wentworth_8:
(Start: 7 @2554 has 7 MA's), (10, 2587), (12, 2599), (15, 2629), (20, 2668), (25, 2701), (27, 2719), (28, 2731), (29, 2740), (31, 2779), (37, 2860), (40, 2926), (43, 2959), (46, 3046), (53, 3139), (56, 3178), (60, 3259), (66, 3343), (68, 3367), (73, 3472), (75, 3520), (77, 3538), (88, 3673), (94, 3775), (101, 3832), (102, 3850), (106, 3859), (110, 3898), (111, 3907), (114, 3922), (117, 3967), (119, 3976), (121, 4003), (123, 4039), (124, 4042), (127, 4075), (129, 4096),

Gene: Wilkos_7 Start: 2666, Stop: 4273, Start Num: 7
Candidate Starts for Wilkos_7:
(Start: 7 @2666 has 7 MA's), (10, 2699), (12, 2711), (15, 2741), (16, 2744), (25, 2813), (27, 2831), (28, 2843), (29, 2852), (31, 2891), (37, 2972), (40, 3038), (41, 3044), (45, 3149), (49, 3203), (50, 3209), (53, 3251), (56, 3290), (60, 3371), (66, 3455), (68, 3479), (73, 3584), (75, 3632), (77, 3650), (94, 3887), (101, 3944), (102, 3962), (110, 4010), (111, 4019), (114, 4034), (115, 4037), (121, 4115), (123, 4151), (124, 4154), (128, 4196), (130, 4217),

Gene: Wyvern_10 Start: 2354, Stop: 3952, Start Num: 11
Candidate Starts for Wyvern_10:
(Start: 11 @2354 has 1 MA's), (26, 2483), (32, 2555), (34, 2573), (35, 2591), (38, 2645), (40, 2681), (42, 2705), (54, 2912), (59, 2966), (66, 3098), (67, 3113), (76, 3284), (82, 3389), (85, 3407), (95, 3533), (100, 3566), (107, 3644), (108, 3650), (112, 3677), (113, 3683), (121, 3770), (123, 3830), (129, 3887),

Gene: Yara_7 Start: 2325, Stop: 3908, Start Num: 8
Candidate Starts for Yara_7:
(1, 2151), (3, 2241), (Start: 7 @2319 has 7 MA's), (Start: 8 @2325 has 1 MA's), (14, 2391), (15, 2397), (22, 2457), (25, 2466), (27, 2484), (31, 2541), (48, 2835), (50, 2859), (52, 2877), (53, 2901), (56, 2940), (57, 2946), (66, 3105), (69, 3132), (71, 3195), (74, 3246), (75, 3267), (77, 3285), (78, 3330), (79, 3336), (84, 3399), (94, 3522), (97, 3537), (101, 3579), (111, 3654), (123, 3786), (127, 3822), (128, 3831), (135, 3894),

Gene: Zuko_7 Start: 3998, Stop: 5650, Start Num: 5
Candidate Starts for Zuko_7:
(Start: 5 @3998 has 1 MA's), (19, 4151), (21, 4175), (24, 4202), (26, 4220), (42, 4439), (44, 4511), (50, 4586), (52, 4604), (60, 4751), (62, 4793), (63, 4811), (65, 4829), (66, 4835), (68, 4859), (70, 4871), (71, 4922), (79, 5063), (90, 5186), (91, 5219), (92, 5222), (98, 5306), (106, 5363), (109, 5399), (111, 5411), (113, 5423), (123, 5537), (126, 5570), (127, 5573), (129, 5594),