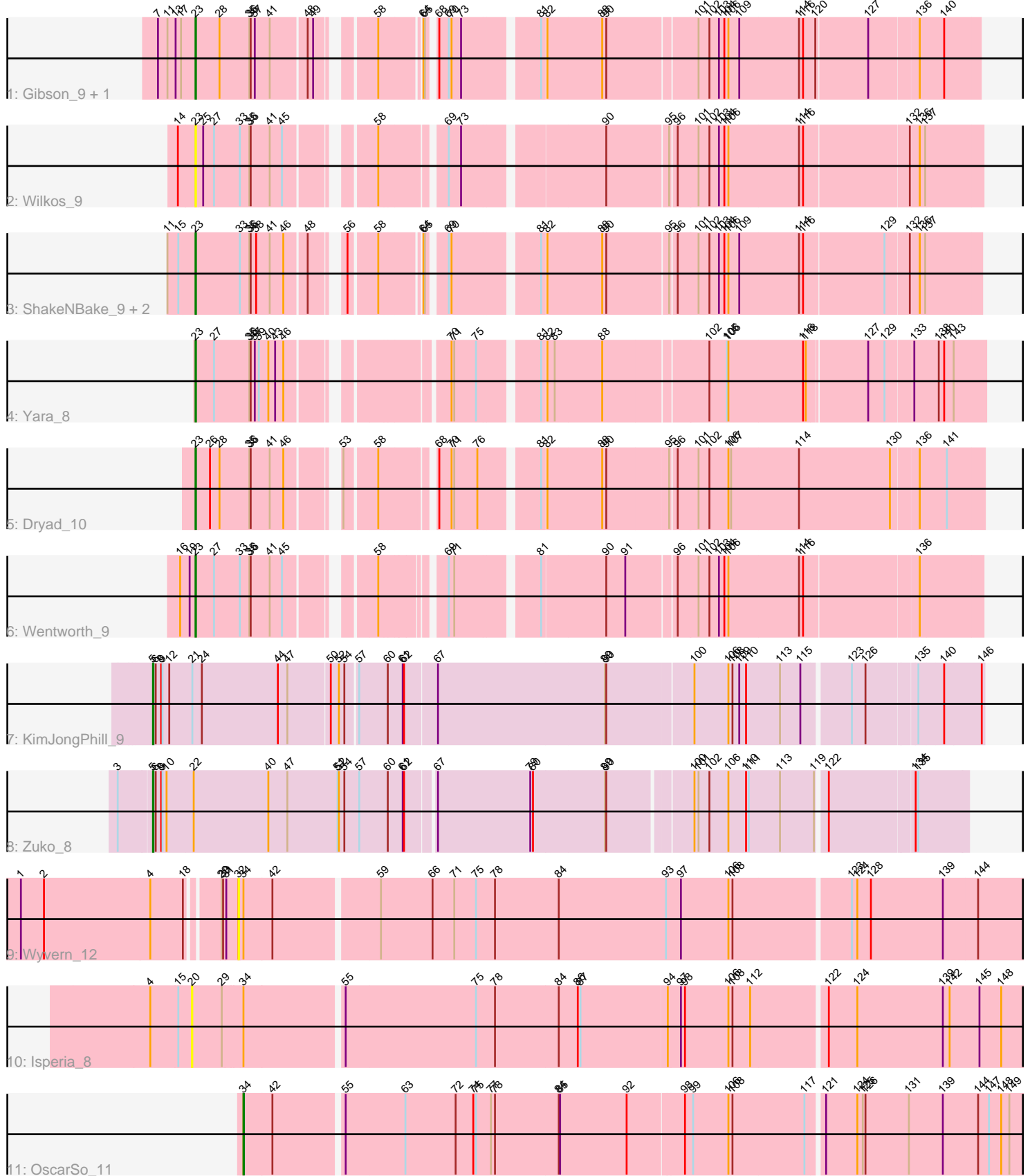


Pham 115456



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 115456 Report

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

Pham number 115456 has 14 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Gibson_9, Rooney_9
- Track 2 : Wilkos_9
- Track 3 : ShakeNBake_9, Lizz_9, PHTowN_9
- Track 4 : Yara_8
- Track 5 : Dryad_10
- Track 6 : Wentworth_9
- Track 7 : KimJongPhill_9
- Track 8 : Zuko_8
- Track 9 : Wyvern_12
- Track 10 : Isperia_8
- Track 11 : OscarSo_11

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

The start number called the most often in the published annotations is 23, it was called in 8 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad_10, Gibson_9, Lizz_9, PHTowN_9, Rooney_9, ShakeNBake_9, Wentworth_9, Wilkos_9, Yara_8,

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

-

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

- Isperia_8, KimJongPhill_9, OscarSo_11, Wyvern_12, Zuko_8,

Summary by start number:

Start 5:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_9 (BR), Zuko_8 (BR),

Start 20:

- Found in 1 of 14 (7.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isperia_8 (GJ),

Start 23:

- Found in 9 of 14 (64.3%) of genes in pham
- Manual Annotations of this start: 8 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_10 (BN), Gibson_9 (BN), Lizz_9 (BN), PHTown_9 (BN), Rooney_9 (BN), ShakeNBake_9 (BN), Wentworth_9 (BN), Wilkos_9 (BN), Yara_8 (BN),

Start 32:

- Found in 1 of 14 (7.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wyvern_12 (GJ),

Start 34:

- Found in 3 of 14 (21.4%) 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: OscarSo_11 (GJ),

Summary by clusters:

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

Info for manual annotations of cluster BN:

- Start number 23 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster BR:

- Start number 5 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster GJ:

- Start number 34 was manually annotated 1 time for cluster GJ.

Gene Information:

Gene: Dryad_10 Start: 4742, Stop: 6310, Start Num: 23

Candidate Starts for Dryad_10:

(Start: 23 @4742 has 8 MA's), (26, 4772), (28, 4793), (35, 4859), (36, 4862), (41, 4904), (46, 4934), (53, 5021), (58, 5084), (68, 5180), (70, 5207), (71, 5213), (76, 5264), (81, 5375), (82, 5384), (88, 5498), (90, 5507), (95, 5639), (96, 5651), (101, 5696), (102, 5720), (106, 5762), (107, 5768), (114, 5915), (130, 6116), (136, 6173), (141, 6230),

Gene: Gibson_9 Start: 4531, Stop: 6078, Start Num: 23

Candidate Starts for Gibson_9:

(7, 4450), (11, 4471), (13, 4489), (17, 4501), (Start: 23 @4531 has 8 MA's), (28, 4582), (35, 4648), (36, 4651), (37, 4660), (41, 4693), (48, 4768), (49, 4780), (58, 4873), (64, 4948), (65, 4951), (68, 4963), (69, 4984), (70, 4990), (73, 5011), (81, 5158), (82, 5167), (88, 5281), (90, 5290), (101, 5479), (102, 5503), (103, 5524), (104, 5536), (106, 5545), (109, 5569), (114, 5698), (116, 5707), (120, 5734), (127, 5845), (136, 5950), (140, 6001),

Gene: Isperia_8 Start: 3780, Stop: 5666, Start Num: 20

Candidate Starts for Isperia_8:

(4, 3690), (15, 3750), (20, 3780), (29, 3846), (Start: 34 @3888 has 1 MA's), (55, 4095), (75, 4380), (78, 4422), (84, 4560), (86, 4602), (87, 4608), (94, 4797), (97, 4824), (98, 4833), (106, 4929), (108, 4938), (112, 4977), (122, 5130), (124, 5193), (139, 5382), (142, 5397), (145, 5463), (148, 5511),

Gene: KimJongPhill_9 Start: 5975, Stop: 7729, Start Num: 5

Candidate Starts for KimJongPhill_9:

(Start: 5 @5975 has 2 MA's), (6, 5981), (8, 5993), (9, 5996), (12, 6011), (21, 6062), (24, 6083), (44, 6251), (47, 6272), (50, 6362), (52, 6380), (54, 6392), (57, 6416), (60, 6476), (61, 6509), (62, 6512), (67, 6581), (89, 6941), (90, 6944), (100, 7127), (106, 7202), (108, 7211), (109, 7226), (110, 7241), (113, 7316), (115, 7361), (123, 7457), (126, 7487), (135, 7592), (140, 7643), (146, 7724),

Gene: Lizz_9 Start: 4504, Stop: 6054, Start Num: 23

Candidate Starts for Lizz_9:

(11, 4444), (15, 4468), (Start: 23 @4504 has 8 MA's), (33, 4600), (35, 4621), (36, 4624), (38, 4636), (41, 4666), (46, 4696), (48, 4741), (56, 4792), (58, 4846), (64, 4921), (65, 4924), (69, 4957), (70, 4963), (81, 5131), (82, 5140), (88, 5254), (90, 5263), (95, 5395), (96, 5407), (101, 5452), (102, 5476), (103, 5497), (104, 5509), (106, 5518), (109, 5542), (114, 5671), (116, 5680), (129, 5854), (132, 5905), (136, 5923), (137, 5935),

Gene: OscarSo_11 Start: 5978, Stop: 7726, Start Num: 34

Candidate Starts for OscarSo_11:

(Start: 34 @5978 has 1 MA's), (42, 6041), (55, 6185), (63, 6314), (72, 6425), (74, 6464), (75, 6470), (77, 6503), (78, 6512), (84, 6650), (85, 6653), (92, 6800), (98, 6920), (99, 6938), (106, 7016), (108, 7025), (117, 7181), (121, 7211), (124, 7280), (125, 7292), (126, 7298), (131, 7394), (139, 7469), (144, 7544), (147, 7568), (148, 7595), (149, 7613),

Gene: PHTowN_9 Start: 4504, Stop: 6054, Start Num: 23

Candidate Starts for PHTowN_9:

(11, 4444), (15, 4468), (Start: 23 @4504 has 8 MA's), (33, 4600), (35, 4621), (36, 4624), (38, 4636), (41, 4666), (46, 4696), (48, 4741), (56, 4792), (58, 4846), (64, 4921), (65, 4924), (69, 4957), (70, 4963), (81, 5131), (82, 5140), (88, 5254), (90, 5263), (95, 5395), (96, 5407), (101, 5452), (102, 5476), (103, 5497), (104, 5509), (106, 5518), (109, 5542), (114, 5671), (116, 5680), (129, 5854), (132, 5905), (136, 5923), (137, 5935),

Gene: Rooney_9 Start: 4531, Stop: 6078, Start Num: 23

Candidate Starts for Rooney_9:

(7, 4450), (11, 4471), (13, 4489), (17, 4501), (Start: 23 @4531 has 8 MA's), (28, 4582), (35, 4648), (36, 4651), (37, 4660), (41, 4693), (48, 4768), (49, 4780), (58, 4873), (64, 4948), (65, 4951), (68, 4963), (69, 4984), (70, 4990), (73, 5011), (81, 5158), (82, 5167), (88, 5281), (90, 5290), (101, 5479), (102, 5503), (103, 5524), (104, 5536), (106, 5545), (109, 5569), (114, 5698), (116, 5707), (120, 5734), (127, 5845), (136, 5950), (140, 6001),

Gene: ShakeNBake_9 Start: 4504, Stop: 6054, Start Num: 23

Candidate Starts for ShakeNBake_9:

(11, 4444), (15, 4468), (Start: 23 @4504 has 8 MA's), (33, 4600), (35, 4621), (36, 4624), (38, 4636), (41, 4666), (46, 4696), (48, 4741), (56, 4792), (58, 4846), (64, 4921), (65, 4924), (69, 4957), (70, 4963), (81, 5131), (82, 5140), (88, 5254), (90, 5263), (95, 5395), (96, 5407), (101, 5452), (102, 5476), (103, 5497), (104, 5509), (106, 5518), (109, 5542), (114, 5671), (116, 5680), (129, 5854), (132, 5905), (136, 5923), (137, 5935),

Gene: Wentworth_9 Start: 4275, Stop: 5828, Start Num: 23

Candidate Starts for Wentworth_9:

(16, 4242), (19, 4263), (Start: 23 @4275 has 8 MA's), (27, 4314), (33, 4371), (35, 4392), (36, 4395), (41, 4437), (45, 4464), (58, 4617), (69, 4728), (71, 4740), (81, 4902), (90, 5034), (91, 5076), (96, 5178), (101, 5223), (102, 5247), (103, 5268), (104, 5280), (106, 5289), (114, 5442), (116, 5451), (136, 5694),

Gene: Wilkos_9 Start: 4375, Stop: 5937, Start Num: 23

Candidate Starts for Wilkos_9:

(14, 4339), (Start: 23 @4375 has 8 MA's), (25, 4390), (27, 4414), (33, 4471), (35, 4492), (36, 4495), (41, 4537), (45, 4564), (58, 4717), (69, 4837), (73, 4864), (90, 5143), (95, 5275), (96, 5287), (101, 5332), (102, 5356), (103, 5377), (104, 5389), (106, 5398), (114, 5551), (116, 5560), (132, 5785), (136, 5803), (137, 5815),

Gene: Wyvern_12 Start: 4602, Stop: 6374, Start Num: 32

Candidate Starts for Wyvern_12:

(1, 4152), (2, 4203), (4, 4434), (18, 4506), (29, 4566), (30, 4569), (31, 4575), (32, 4602), (Start: 34 @4611 has 1 MA's), (42, 4674), (59, 4893), (66, 5007), (71, 5055), (75, 5103), (78, 5145), (84, 5286), (93, 5523), (97, 5556), (106, 5661), (108, 5670), (123, 5913), (124, 5925), (128, 5955), (139, 6114), (144, 6189),

Gene: Yara_8 Start: 3997, Stop: 5562, Start Num: 23

Candidate Starts for Yara_8:

(Start: 23 @3997 has 8 MA's), (27, 4036), (35, 4114), (36, 4117), (37, 4126), (39, 4135), (40, 4156), (43, 4171), (46, 4189), (70, 4471), (71, 4477), (75, 4525), (81, 4639), (82, 4648), (83, 4660), (88, 4762), (102, 4981), (105, 5020), (106, 5023), (116, 5185), (118, 5191), (127, 5314), (129, 5350), (133, 5407), (138, 5458), (140, 5470), (143, 5491),

Gene: Zuko_8 Start: 5741, Stop: 7453, Start Num: 5

Candidate Starts for Zuko_8:

(3, 5669), (Start: 5 @5741 has 2 MA's), (6, 5747), (8, 5759), (9, 5762), (10, 5771), (22, 5828), (40, 5993), (47, 6035), (51, 6146), (52, 6149), (54, 6161), (57, 6194), (60, 6254), (61, 6287), (62, 6290), (67, 6347), (79, 6551), (80, 6557), (89, 6707), (90, 6710), (100, 6881), (101, 6890), (102, 6914), (106, 6956), (110, 6995), (111, 7001), (113, 7070), (119, 7142), (122, 7160), (134, 7340), (135, 7346),