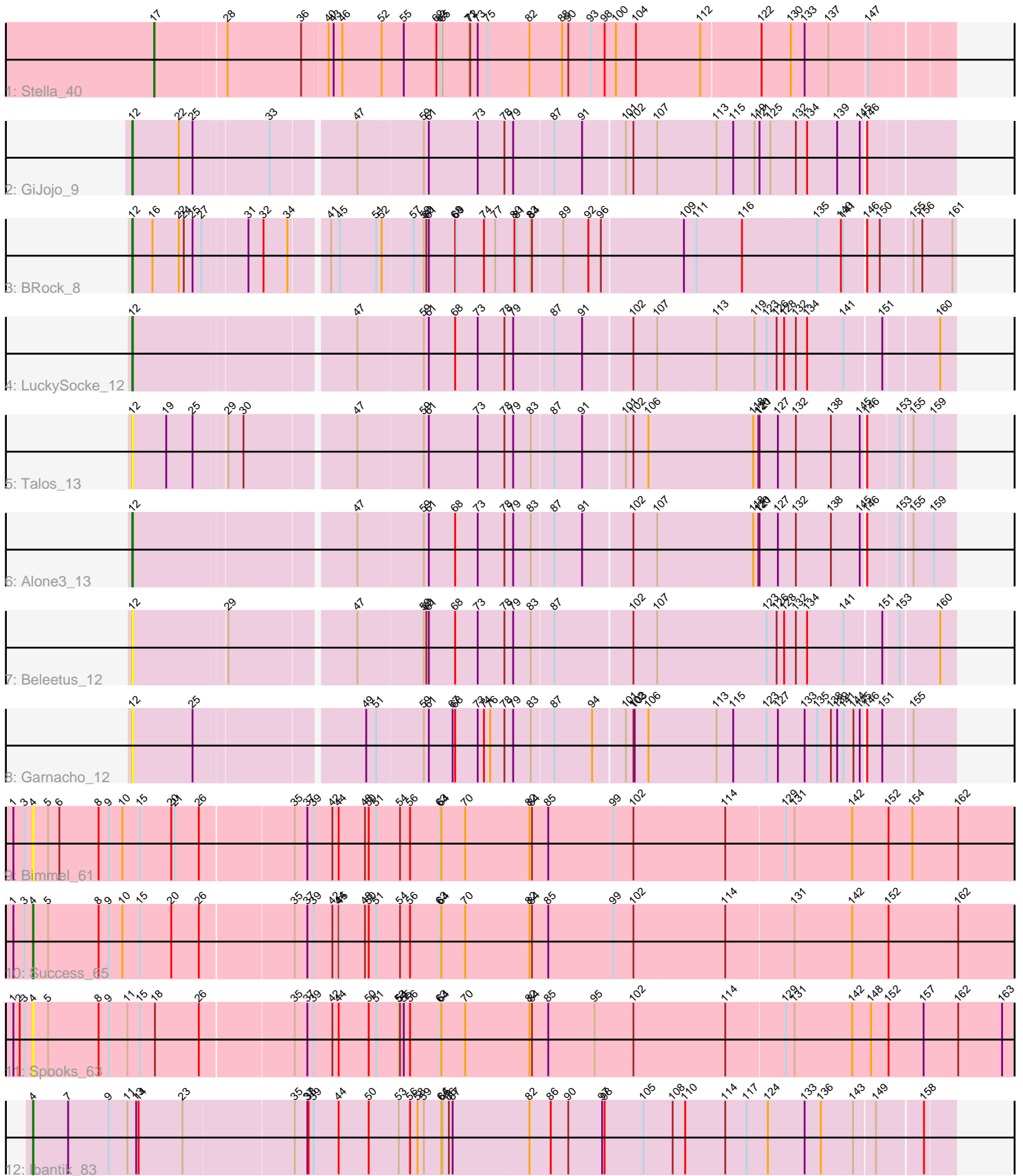


# Pham 203488



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 203488 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203488 has 12 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Stella\_40
- Track 2 : GiJojo\_9
- Track 3 : BRock\_8
- Track 4 : LuckySocke\_12
- Track 5 : Talos\_13
- Track 6 : Alone3\_13
- Track 7 : Beleetus\_12
- Track 8 : Garnacho\_12
- Track 9 : Bimmel\_61
- Track 10 : Success\_65
- Track 11 : Spooks\_63
- Track 12 : Ibantik\_83

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

The start number called the most often in the published annotations is 12, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alone3\_13, BRock\_8, Beleetus\_12, Garnacho\_12, GiJojo\_9, LuckySocke\_12, Talos\_13,

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

- 

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

- Bimmel\_61, Ibantik\_83, Spooks\_63, Stella\_40, Success\_65,

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

Start 4:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Bimmel\_61 (BT), Ibantik\_83 (singleton), Spooks\_63 (BT), Success\_65 (BT),

Start 12:

- Found in 7 of 12 ( 58.3% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alone3\_13 (BS), BRock\_8 (BS), Beleetus\_12 (BS), Garnacho\_12 (BS), GiJojo\_9 (BS), LuckySocke\_12 (BS), Talos\_13 (BS),

Start 17:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stella\_40 (BF),

### Summary by clusters:

There are 4 clusters represented in this pham: BT, singleton, BF, BS,

Info for manual annotations of cluster BF:

- Start number 17 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BS:

- Start number 12 was manually annotated 4 times for cluster BS.

Info for manual annotations of cluster BT:

- Start number 4 was manually annotated 1 time for cluster BT.

### Gene Information:

Gene: Alone3\_13 Start: 4414, Stop: 6246, Start Num: 12

Candidate Starts for Alone3\_13:

(Start: 12 @4414 has 4 MA's), (47, 4903), (59, 5053), (61, 5065), (68, 5125), (73, 5176), (78, 5239), (79, 5260), (83, 5302), (87, 5353), (91, 5419), (102, 5530), (107, 5587), (118, 5800), (120, 5812), (121, 5815), (127, 5857), (132, 5899), (138, 5980), (145, 6046), (146, 6055), (153, 6127), (155, 6151), (159, 6196),

Gene: BRock\_8 Start: 3380, Stop: 5221, Start Num: 12

Candidate Starts for BRock\_8:

(Start: 12 @3380 has 4 MA's), (16, 3428), (22, 3491), (24, 3503), (25, 3524), (27, 3545), (31, 3644), (32, 3677), (34, 3734), (41, 3809), (45, 3830), (51, 3914), (52, 3926), (57, 3995), (59, 4019), (60, 4025), (61, 4031), (68, 4091), (69, 4094), (74, 4157), (77, 4184), (80, 4229), (81, 4235), (83, 4268), (84, 4271), (89, 4340), (92, 4397), (96, 4424), (109, 4607), (111, 4634), (116, 4742), (135, 4916), (140, 4970), (141, 4976), (146, 5024), (150, 5054), (155, 5123), (156, 5144), (161, 5213),

Gene: Beleetus\_12 Start: 4082, Stop: 5917, Start Num: 12

Candidate Starts for Beleetus\_12:

(Start: 12 @4082 has 4 MA's), (29, 4301), (47, 4571), (59, 4721), (60, 4727), (61, 4733), (68, 4793), (73, 4844), (78, 4907), (79, 4928), (83, 4970), (87, 5021), (102, 5198), (107, 5255), (123, 5501), (126,

5525), (128, 5543), (132, 5570), (134, 5597), (141, 5681), (151, 5762), (153, 5798), (160, 5882),

Gene: Bimmel\_61 Start: 41125, Stop: 43452, Start Num: 4

Candidate Starts for Bimmel\_61:

(1, 41080), (3, 41107), (Start: 4 @41125 has 2 MA's), (5, 41161), (6, 41188), (8, 41281), (9, 41305), (10, 41338), (15, 41380), (20, 41455), (21, 41464), (26, 41521), (35, 41731), (37, 41761), (39, 41776), (42, 41821), (44, 41836), (48, 41899), (50, 41908), (51, 41926), (54, 41983), (56, 42007), (63, 42079), (64, 42082), (70, 42139), (82, 42292), (84, 42298), (85, 42337), (99, 42490), (102, 42538), (114, 42754), (129, 42883), (131, 42904), (142, 43039), (152, 43126), (154, 43183), (162, 43291),

Gene: Garnacho\_12 Start: 4059, Stop: 5900, Start Num: 12

Candidate Starts for Garnacho\_12:

(Start: 12 @4059 has 4 MA's), (25, 4203), (49, 4569), (51, 4593), (59, 4698), (61, 4710), (67, 4764), (68, 4770), (73, 4821), (74, 4836), (76, 4851), (78, 4884), (79, 4905), (83, 4947), (87, 4998), (94, 5085), (101, 5157), (102, 5175), (103, 5178), (106, 5211), (113, 5361), (115, 5400), (123, 5478), (127, 5505), (133, 5568), (135, 5598), (138, 5628), (139, 5643), (141, 5658), (144, 5682), (145, 5697), (146, 5706), (151, 5739), (155, 5805),

Gene: GiJojo\_9 Start: 3845, Stop: 5674, Start Num: 12

Candidate Starts for GiJojo\_9:

(Start: 12 @3845 has 4 MA's), (22, 3956), (25, 3989), (33, 4157), (47, 4334), (59, 4484), (61, 4496), (73, 4607), (78, 4670), (79, 4691), (87, 4784), (91, 4850), (101, 4943), (102, 4961), (107, 5018), (113, 5144), (115, 5183), (119, 5234), (121, 5246), (125, 5270), (132, 5330), (134, 5357), (139, 5426), (145, 5477), (146, 5486),

Gene: lbantik\_83 Start: 45267, Stop: 47420, Start Num: 4

Candidate Starts for lbantik\_83:

(Start: 4 @45267 has 2 MA's), (7, 45351), (9, 45447), (11, 45492), (13, 45513), (14, 45519), (23, 45624), (35, 45882), (37, 45912), (38, 45915), (39, 45927), (44, 45987), (50, 46059), (53, 46131), (56, 46158), (58, 46176), (59, 46188), (64, 46230), (65, 46233), (66, 46248), (67, 46257), (82, 46440), (86, 46491), (90, 46533), (97, 46611), (98, 46617), (105, 46710), (108, 46779), (110, 46809), (114, 46905), (117, 46956), (124, 47007), (133, 47094), (136, 47133), (143, 47208), (149, 47253), (158, 47355),

Gene: LuckySocke\_12 Start: 4096, Stop: 5931, Start Num: 12

Candidate Starts for LuckySocke\_12:

(Start: 12 @4096 has 4 MA's), (47, 4585), (59, 4735), (61, 4747), (68, 4807), (73, 4858), (78, 4921), (79, 4942), (87, 5035), (91, 5101), (102, 5212), (107, 5269), (113, 5398), (119, 5488), (123, 5515), (126, 5539), (128, 5557), (132, 5584), (134, 5611), (141, 5695), (151, 5776), (160, 5896),

Gene: Spooks\_63 Start: 42429, Stop: 44756, Start Num: 4

Candidate Starts for Spooks\_63:

(1, 42384), (2, 42399), (3, 42411), (Start: 4 @42429 has 2 MA's), (5, 42465), (8, 42585), (9, 42609), (11, 42654), (15, 42684), (18, 42720), (26, 42825), (35, 43035), (37, 43065), (39, 43080), (42, 43125), (44, 43140), (50, 43212), (51, 43230), (53, 43284), (54, 43287), (55, 43296), (56, 43311), (63, 43383), (64, 43386), (70, 43443), (82, 43596), (84, 43602), (85, 43641), (95, 43752), (102, 43842), (114, 44058), (129, 44187), (131, 44208), (142, 44343), (148, 44388), (152, 44430), (157, 44514), (162, 44595), (163, 44700),

Gene: Stella\_40 Start: 20111, Stop: 21928, Start Num: 17

Candidate Starts for Stella\_40:

(Start: 17 @20111 has 1 MA's), (28, 20267), (36, 20435), (40, 20495), (43, 20507), (46, 20528), (52, 20621), (55, 20672), (62, 20747), (63, 20756), (65, 20762), (71, 20825), (72, 20828), (73, 20846), (75, 20870), (82, 20969), (88, 21047), (90, 21062), (93, 21116), (98, 21149), (100, 21176), (104, 21224),

(112, 21377), (122, 21503), (130, 21572), (133, 21605), (137, 21659), (147, 21749),

Gene: Success\_65 Start: 41563, Stop: 43890, Start Num: 4

Candidate Starts for Success\_65:

(1, 41518), (3, 41545), (Start: 4 @41563 has 2 MA's), (5, 41599), (8, 41719), (9, 41743), (10, 41776), (15, 41818), (20, 41893), (26, 41959), (35, 42169), (37, 42199), (39, 42214), (42, 42259), (44, 42274), (45, 42277), (48, 42337), (50, 42346), (51, 42364), (54, 42421), (56, 42445), (63, 42517), (64, 42520), (70, 42577), (82, 42730), (84, 42736), (85, 42775), (99, 42928), (102, 42976), (114, 43192), (131, 43342), (142, 43477), (152, 43564), (162, 43729),

Gene: Talos\_13 Start: 4312, Stop: 6144, Start Num: 12

Candidate Starts for Talos\_13:

(Start: 12 @4312 has 4 MA's), (19, 4393), (25, 4456), (29, 4531), (30, 4564), (47, 4801), (59, 4951), (61, 4963), (73, 5074), (78, 5137), (79, 5158), (83, 5200), (87, 5251), (91, 5317), (101, 5410), (102, 5428), (106, 5464), (118, 5698), (120, 5710), (121, 5713), (127, 5755), (132, 5797), (138, 5878), (145, 5944), (146, 5953), (153, 6025), (155, 6049), (159, 6094),