

CUSTOM ASSAYS

Custom Target Library

274 qPCR targets: 145 on Bandit panels and 129 custom designs made to order.

274

targets in the library

145

on existing Bandit panels

129

custom designs, made to order

4

targets per reaction, maximum

145

Part 1. On Bandit panels. Designed, in production and available in the listed panels today. Any of them can also be combined into a custom multiplex.

129

Part 2. Custom designs, made to order. Not in a current Bandit panel. We design, optimize and build the assay for your project, quoted individually.

How to order. Send your target list, sample type and instrument to info@bandit.bio, or lay it out at bandit.bio/design-your-panel. We respond within 24 hours. Every lot is tested and ships with a Certificate of Analysis.

PART 1

On Bandit panels

145 targets designed, in production and available in the panels listed.

Viruses ³⁷

TARGET	ON THESE PANELS
Adenovirus	Bandit Respiratory Panel XL
Canine adenovirus 2	Canine Respiratory XL qPCR Panel
Canine circovirus	Canine Enteric Pathogen qPCR Panel
Canine distemper virus	Canine Enteric Pathogen qPCR Panel, Canine Respiratory XL qPCR Panel
Canine enteric coronavirus	Canine Enteric Pathogen qPCR Panel
Canine herpesvirus 1 (CHV-1)	Canine Respiratory XL qPCR Panel
Canine parainfluenza virus	Canine Respiratory XL qPCR Panel
Canine parvovirus	Canine Enteric Pathogen qPCR Panel
Canine pneumovirus	Canine Respiratory XL qPCR Panel
Canine respiratory coronavirus (CRCoV)	Canine Respiratory XL qPCR Panel
Coronavirus 229E	Bandit Respiratory Panel XL
Coronavirus HKU1	Bandit Respiratory Panel XL
Coronavirus NL63	Bandit Respiratory Panel XL
Coronavirus OC43	Bandit Respiratory Panel XL

TARGET	ON THESE PANELS
Enterovirus	Bandit Respiratory Panel XL, Enterovirus and D68 Panel
Enterovirus D68	Bandit Respiratory Panel XL, Enterovirus and D68 Panel
Feline calicivirus	Feline Respiratory XL qPCR Panel
Feline enteric coronavirus	Feline Enteric Pathogen qPCR Panel
Feline herpesvirus 1	Feline Respiratory XL qPCR Panel
Feline parvovirus 2 (FPV)	Feline Enteric Pathogen qPCR Panel
Herpes simplex virus 1 (HSV-1)	Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A
Herpes simplex virus 2 (HSV-2)	Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A
HPV 16	Amur HPV Mini Panel
HPV 18	Amur HPV Mini Panel
HPV 45	Amur HPV Mini Panel
Human metapneumovirus (HMPV)	Bandit Respiratory Panel XL
Influenza A	Bandit Respiratory Panel A, Bandit Respiratory Panel B, Bandit Respiratory Panel B QS, Bandit Respiratory Panel XL, H5N1 Avian Influenza Panel, Canine Respiratory XL qPCR Panel, Feline Respiratory XL qPCR Panel
Influenza A H3N2	Canine Respiratory XL qPCR Panel
Influenza A H5 (hemagglutinin gene)	H5N1 Avian Influenza Panel
Influenza B	Bandit Respiratory Panel A, Bandit Respiratory Panel B, Bandit Respiratory Panel B QS, Bandit Respiratory Panel XL
Measles virus	Measles Panel A
Parainfluenza 1—3	Bandit Respiratory Panel XL
Respiratory syncytial virus (RSV A and B)	Bandit Respiratory Panel B, Bandit Respiratory Panel B QS, Bandit Respiratory Panel XL
Rhinovirus	Bandit Respiratory Panel XL
SARS-CoV-2	Bandit Respiratory Panel A, Bandit Respiratory Panel B, Bandit Respiratory Panel B QS, Bandit Respiratory Panel XL
SARS-CoV-2 N1	Bandit SARS-CoV-2 Panel A
SARS-CoV-2 N2	Bandit SARS-CoV-2 Panel A

Bacteria ⁶³

TARGET	ON THESE PANELS
<i>Acinetobacter baumannii</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Atopobium vaginae</i>	Amur WH Vaginal Microbiota Panel A
<i>Bacteroides fragilis</i>	Amur WH Vaginal Microbiota Panel A, Glyphis Wound Panel A
<i>Bordetella bronchiseptica</i>	Canine Respiratory XL qPCR Panel, Feline Respiratory XL qPCR Panel
<i>Bordetella parapertussis</i>	Bandit Respiratory Panel XL
<i>Bordetella pertussis</i>	Bandit Respiratory Panel XL
BVAB2	Amur WH Vaginal Microbiota Panel A
<i>Campylobacter (jejuni and coli)</i>	Canine Enteric Pathogen qPCR Panel, Feline Enteric Pathogen qPCR Panel
<i>Chlamydia trachomatis</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A, Amur CT-NG Panel

TARGET	ON THESE PANELS
<i>Chlamydomphila felis</i>	Feline Respiratory XL qPCR Panel
<i>Chlamydomphila pneumoniae</i>	Bandit Respiratory Panel XL
<i>Citrobacter freundii</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Clostridium difficile</i> toxin A/B	Canine Enteric Pathogen qPCR Panel, Feline Enteric Pathogen qPCR Panel
<i>Clostridium novyi</i>	Glyphis Wound Panel A
<i>Clostridium perfringens</i>	Glyphis Wound Panel A
<i>Clostridium perfringens</i> alpha toxin (CPA)	Canine Enteric Pathogen qPCR Panel, Feline Enteric Pathogen qPCR Panel
<i>Clostridium perfringens</i> enterotoxin (CPE)	Canine Enteric Pathogen qPCR Panel, Feline Enteric Pathogen qPCR Panel
<i>Clostridium perfringens</i> NetE/NetF	Canine Enteric Pathogen qPCR Panel
<i>Clostridium septicum</i>	Glyphis Wound Panel A
<i>Enterobacter cloacae</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Enterococcus faecalis</i>	Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Enterococcus faecium</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Escherichia coli</i>	Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Gardnerella vaginalis</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A
<i>Haemophilus ducreyi</i>	Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A
<i>Haemophilus influenzae</i>	Bandit Respiratory Panel XL
<i>Kingella kingae</i>	Glyphis Wound Panel A
<i>Klebsiella aerogenes</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Klebsiella oxytoca</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Klebsiella pneumoniae</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A, Bandit Respiratory Panel XL
<i>Lactobacillus crispatus</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A
<i>Lactobacillus gasseri</i>	Amur WH Vaginal Microbiota Panel A
<i>Lactobacillus iners</i>	Amur WH Vaginal Microbiota Panel A
<i>Lactobacillus jensenii</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A
<i>Lawsonia intracellularis</i>	Canine Enteric Pathogen qPCR Panel
<i>Megasphaera 1</i>	Amur WH Vaginal Microbiota Panel A
<i>Megasphaera 2</i>	Amur WH Vaginal Microbiota Panel A
<i>Mobiluncus curtisii</i>	Amur WH Vaginal Microbiota Panel A
<i>Mobiluncus mulieris</i>	Amur WH Vaginal Microbiota Panel A
<i>Moraxella catarrhalis</i>	Bandit Respiratory Panel XL
<i>Morganella morganii</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Mycoplasma cynos</i>	Canine Respiratory XL qPCR Panel
<i>Mycoplasma felis</i>	Feline Respiratory XL qPCR Panel
<i>Mycoplasma genitalium</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A
<i>Mycoplasma hominis</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A

TARGET	ON THESE PANELS
<i>Mycoplasma pneumoniae</i>	Bandit Respiratory Panel XL
<i>Neisseria gonorrhoeae</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A, Amur CT-NG Panel
<i>Prevotella bivia</i>	Amur WH Vaginal Microbiota Panel A
<i>Proteus mirabilis</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Proteus vulgaris</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Providencia stuartii</i>	Lioness UT Microbiota Panel A
<i>Pseudomonas aeruginosa</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Salmonella</i> spp.	Canine Enteric Pathogen qPCR Panel, Feline Enteric Pathogen qPCR Panel
<i>Serratia marcescens</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Staphylococcus aureus</i>	Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A, Bandit Respiratory Panel XL
<i>Staphylococcus saprophyticus</i>	Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Streptococcus agalactiae</i> (Group B)	Group B Strep Panel, Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Streptococcus equi</i>	Canine Respiratory XL qPCR Panel
<i>Streptococcus pneumoniae</i>	Bandit Respiratory Panel XL
<i>Streptococcus pyogenes</i> (Group A)	Glyphis Wound Panel A, Bandit Respiratory Panel XL
<i>Treponema pallidum</i>	Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A
<i>Ureaplasma parvum</i>	Women's Health Panel C Ready-2-Test
<i>Ureaplasma urealyticum</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A, Lioness UT Microbiota Panel A

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TARGET	ON THESE PANELS
<i>Candida albicans</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Candida auris</i>	Amur WH Vaginal Microbiota Panel A, Glyphis Wound Panel A
<i>Candida glabrata</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Candida krusei</i>	Amur WH Vaginal Microbiota Panel A, Glyphis Wound Panel A
<i>Candida lusitanae</i>	Amur WH Vaginal Microbiota Panel A, Glyphis Wound Panel A
<i>Candida parapsilosis</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Candida tropicalis</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Lioness UT Microbiota Panel A, Glyphis Wound Panel A
<i>Microsporum</i> spp.	Ringworm qPCR Panel
<i>Trichophyton</i> spp.	Ringworm qPCR Panel

Parasites and protozoa 5

TARGET	ON THESE PANELS
<i>Cryptosporidium</i> spp.	Canine Enteric Pathogen qPCR Panel, Feline Enteric Pathogen qPCR Panel
<i>Giardia</i> spp.	Canine Enteric Pathogen qPCR Panel, Feline Enteric Pathogen qPCR Panel
<i>Toxoplasma gondii</i>	Feline Enteric Pathogen qPCR Panel
<i>Trichomonas vaginalis</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A
<i>Tritrichomonas foetus</i> / <i>T. blagburni</i>	Feline Enteric Pathogen qPCR Panel

Antibiotic resistance genes 28

TARGET	ON THESE PANELS
ACT	Pongo Antibiotic Resistance Panel A
<i>ampC</i>	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
CTX-M Group 1	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
CTX-M Group 2	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
CTX-M Group 9	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>dfrA1</i>	Women's Health Panel C Ready-2-Test
<i>dfrA5</i>	Women's Health Panel C Ready-2-Test
<i>ermA</i>	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>ermB</i>	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>ermC</i>	Women's Health Panel C Ready-2-Test
FOX	Pongo Antibiotic Resistance Panel A
IMP-7 (blaIMP)	Pongo Antibiotic Resistance Panel A
KPC (blaKPC)	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>mecA</i>	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Pongo Antibiotic Resistance Panel A, Bandit Respiratory Panel XL
NDM-1	Pongo Antibiotic Resistance Panel A
OXA-48 (blaOXA)	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>qnrA</i>	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>qnrB</i>	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>qnrS</i>	Pongo Antibiotic Resistance Panel A
SHV	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>sulI</i>	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
<i>sul2</i>	Women's Health Panel C Ready-2-Test, Pongo Antibiotic Resistance Panel A
TEM	Pongo Antibiotic Resistance Panel A
<i>tet(A)</i>	Pongo Antibiotic Resistance Panel A
<i>tet(M)</i>	Women's Health Panel C Ready-2-Test
<i>vanA</i>	Amur WH Vaginal Microbiota Panel A, Pongo Antibiotic Resistance Panel A
<i>vanB</i>	Amur WH Vaginal Microbiota Panel A, Pongo Antibiotic Resistance Panel A
VIM (blaVIM)	Pongo Antibiotic Resistance Panel A

Internal controls 3

TARGET	ON THESE PANELS
Human beta-globin (HBB)	Amur HPV Mini Panel
Human RNase P (hRPP)	Women's Health Panel C Ready-2-Test, Amur WH Vaginal Microbiota Panel A, Amur ST Microbiota Panel A, Amur CT-NG Panel, Lioness UT Microbiota Panel A, Glyphis Wound Panel A, Bandit Respiratory Panel A, Bandit Respiratory Panel B, Bandit Respiratory Panel B QS, Bandit Respiratory Panel XL, Bandit SARS-CoV-2 Panel A, Measles Panel A
Multi-species internal control	H5N1 Avian Influenza Panel, Canine Enteric Pathogen qPCR Panel, Canine Respiratory XL qPCR Panel, Feline Enteric Pathogen qPCR Panel, Feline Respiratory XL qPCR Panel, Ringworm qPCR Panel

PART 2

Custom designs, made to order

129 targets that are not in a current Bandit panel. Each is developed for your project and quoted individually.

- 1 Feasibility and quote.** Send your targets, sample type and instrument. We respond within 24 hours and confirm feasibility, format and timeline in the quote.
- 2 Design.** Primers and probes designed in silico against current sequence data for your target and dye set.
- 3 Optimization.** Wet-lab optimization in your multiplex format, up to 4 targets per reaction, alone or combined with panel targets.
- 4 Delivery.** Supplied with a matched positive control. Every lot is tested and ships with a Certificate of Analysis.

Typical development time: 3 to 10 weeks. Custom designs are research tools; performance should be verified by your laboratory with your samples and workflow. Not available as stock items.

Viruses 48 custom designs

Adenovirus 40/41 (enteric)	Hepatitis A virus	JC polyomavirus
BK polyomavirus	Hepatitis B virus	Mumps virus
Bovine coronavirus	Hepatitis C virus	Norovirus GI
Bovine respiratory syncytial virus (BRSV)	Hepatitis E virus	Norovirus GII
Bovine viral diarrhea virus (BVDV)	HIV-1	Parainfluenza 4
Canine influenza virus H3N2	HPV 6	Parechovirus A
Canine influenza virus H3N8	HPV 11	Parvovirus B19
Chikungunya virus	HPV 31	Porcine circovirus 2 (PCV2)
Cytomegalovirus (CMV)	HPV 33	Porcine epidemic diarrhea virus (PEDV)
Dengue virus 1—4	HPV 52	Porcine reproductive and respiratory syndrome virus (PRRSV)
Epstein-Barr virus (EBV)	HPV 58	Rotavirus A
Equine herpesvirus 1 (EHV-1)	Human astrovirus	Rubella virus
Equine herpesvirus 4 (EHV-4)	Human bocavirus	Sapovirus
Equine influenza virus	Human herpesvirus 6 (HHV-6)	Varicella-zoster virus (VZV)
Feline immunodeficiency virus (FIV)	Human herpesvirus 8 (HHV-8)	West Nile virus

Feline leukemia virus (FeLV)

Influenza A H1N1pdm09

Zika virus

Bacteria 37 custom designs

<i>Aeromonas</i> spp.	<i>Finnegoldia magna</i>	<i>Peptostreptococcus anaerobius</i>
<i>Anaplasma phagocytophilum</i>	<i>Fusobacterium nucleatum</i>	<i>Porphyromonas gingivalis</i>
<i>Bartonella</i>	<i>Haemophilus parainfluenzae</i>	Shiga toxin genes <i>stx1/stx2</i>
<i>Bartonella henselae</i>	<i>Helicobacter pylori</i>	<i>Shigella</i> spp. / EIEC (<i>ipaH</i>)
<i>Bordetella holmesii</i>	<i>Legionella pneumophila</i>	<i>Staphylococcus epidermidis</i>
<i>Borrelia</i>	<i>Leptospira</i> spp.	<i>Staphylococcus lugdunensis</i>
<i>Borrelia burgdorferi</i>	<i>Listeria monocytogenes</i>	<i>Staphylococcus pseudintermedius</i>
<i>Campylobacter upsaliensis</i>	<i>Mannheimia haemolytica</i>	<i>Stenotrophomonas maltophilia</i>
<i>Chlamydia psittaci</i>	<i>Mycobacterium avium</i> complex	<i>Streptococcus dysgalactiae</i> (Group C/G)
<i>Corynebacterium</i> spp.	<i>Mycobacterium tuberculosis</i> complex	<i>Vibrio</i> spp.
<i>Cutibacterium acnes</i>	<i>Mycoplasma bovis</i>	<i>Yersinia enterocolitica</i>
<i>Ehrlichia canis</i>	<i>Mycoplasma haemofelis</i>	
Enterotoxigenic <i>E. coli</i> (LT/ST)	<i>Pasteurella multocida</i>	

Fungi 11 custom designs

<i>Aspergillus fumigatus</i>	<i>Candida guilliermondii</i>	<i>Malassezia pachydermatis</i>
<i>Aspergillus</i> spp. (<i>pan</i>)	<i>Cryptococcus neoformans/gattii</i>	<i>Mucorales</i> (<i>pan</i>)
<i>Blastomyces dermatitidis</i>	<i>Fusarium</i> spp.	<i>Pneumocystis jirovecii</i>
<i>Candida dubliniensis</i>	<i>Histoplasma capsulatum</i>	

Parasites and protozoa 13 custom designs

<i>Ancylostoma</i> spp.	<i>Dientamoeba fragilis</i>	<i>Plasmodium</i> spp. (<i>pan</i>)
<i>Babesia</i> spp.	<i>Dirofilaria immitis</i>	<i>Strongyloides stercoralis</i>
<i>Blastocystis</i> spp.	<i>Entamoeba histolytica</i>	<i>Toxocara canis</i>
<i>Cyclospora cayentanensis</i>	<i>Leishmania</i> spp.	
<i>Cystoisospora</i> spp.	<i>Neospora caninum</i>	

Antibiotic resistance genes 20 custom designs

<i>aac(6')-Ib-cr</i>	GES	PER
<i>armA</i>	<i>mcr-1</i>	<i>qepA</i>
<i>blaZ</i>	<i>mecC</i>	<i>tet(B)</i>
<i>cfr</i>	<i>mph(A)</i>	<i>tet(O)</i>
CMY-2	<i>msr(A)</i>	<i>vanC</i>
DHA	OXA-23	VEB
<i>fosA</i>	OXA-24/40	

Not listed? We design assays for other bacterial, viral, fungal and parasitic targets for human and companion-animal research. Send your list to info@bandit.bio. The online library at bandit.bio/target-library is updated as designs are added.

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