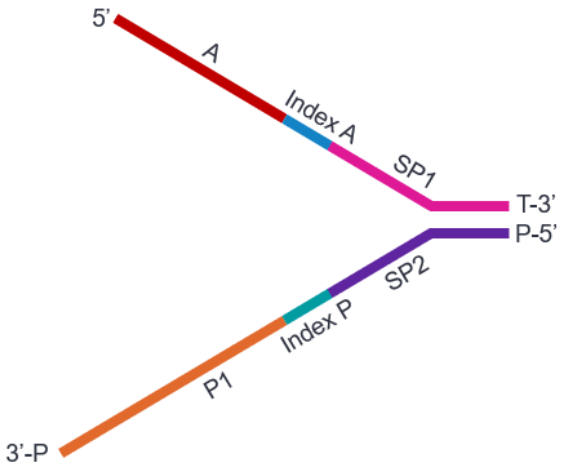
Quick reference card – Onso system library preparation adapters

Introduction

Onso indexed adapter sequences are shown here and can be purchased to prepare libraries from genomic, fragmented, or existing P5/P7 libraries. See the appropriate procedures and user guide for more information.

Onso adapters



Onso library element structure

*Bold A in SP2 comes from A-tailing in library prep not adapter oligo

	Sequence
A	CCATCTCATCCCTGCGTGTCTCCGACTCAG
SP1	TGCCGAGTACCACGGACAAGCACGAATCGAT
SP2*	**A**TCGATTCGTGCTCGATGAACCGGGCGCTTA
P1	ATCACCGACTGCCCATAGAGAGGAAAGCGGAGGCGTAGTGG

Onso indexed adapter kit

	1	2	3	4	5	6	7	8	9	10	11	12
A	DI001	DI009	DI017	DI025	DI033	DI041	DI049	DI057	DI065	DI073	DI081	DI089
B	DI002	DI010	DI018	DI026	DI034	DI042	DI050	DI058	DI066	DI074	DI082	DI090
C	DI003	DI011	DI019	DI027	DI035	DI043	DI051	DI059	DI067	DI075	DI083	DI091
D	DI004	DI012	DI020	DI028	DI036	DI044	DI052	DI060	DI068	DI076	DI084	DI092
E	DI005	DI013	DI021	DI029	DI037	DI045	DI053	DI061	DI069	DI077	DI085	DI093
F	DI006	DI014	DI022	DI030	DI038	DI046	DI054	DI062	DI070	DI078	DI086	DI094
G	DI007	DI015	DI023	DI031	DI039	DI047	DI055	DI063	DI071	DI079	DI087	DI095
H	DI008	DI016	DI024	DI032	DI040	DI048	DI056	DI064	DI072	DI080	DI088	DI096

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Onso indices

Indexed adapter kit

Index Number	Index A	Index P	Index Number	Index A	Index P	Index Number	Index A	Index P	Index Number	Index A	Index P
DI001	CAACTGTA	TCCTTAGG	DI025	GCGTCACT	TCCTTAGG	DI049	TAGTTCTA	TCCTTAGG	DI073	TCCAGAAG	TCCTTAGG
DI002	GCGTCACT	CGTCGCAC	DI026	TGCAACGG	CGTCGCAC	DI050	CCCACGGT	CGTCGCAC	DI074	GAGCATCA	CGTCGCAC
DI003	TGCAACGG	GAGAAGCT	DI027	ATTGGTAC	GAGAAGCT	DI051	GTACAAAG	GAGAAGCT	DI075	CGAGTCTC	GAGAAGCT
DI004	ATTGGTAC	ATAGCTTA	DI028	CAACTGTA	ATAGCTTA	DI052	AGTGGTCC	ATAGCTTA	DI076	ATTTCGGT	ATAGCTTA
DI005	GAGCATCA	CTCAGACA	DI029	CGAGTCTC	CTCAGACA	DI053	TGCAACGG	CTCAGACA	DI077	CCCACGGT	CTCAGACA
DI006	CGAGTCTC	ACTTCGTC	DI030	ATTTCGGT	ACTTCGTC	DI054	ATTGGTAC	ACTTCGTC	DI078	GTACAAAG	ACTTCGTC
DI007	ATTTCGGT	TGGCTTAG	DI031	TCCAGAAG	TGGCTTAG	DI055	CAACTGTA	TGGCTTAG	DI079	AGTGGTCC	TGGCTTAG
DI008	TCCAGAAG	GAAGACGT	DI032	GAGCATCA	GAAGACGT	DI056	GCGTCACT	GAAGACGT	DI080	TAGTTCTA	GAAGACGT
DI009	ATTGGTAC	TCCTTAGG	DI033	GTACAAAG	TCCTTAGG	DI057	AGTGGTCC	TCCTTAGG	DI081	ATTTCGGT	TCCTTAGG
DI010	CAACTGTA	CGTCGCAC	DI034	AGTGGTCC	CGTCGCAC	DI058	TAGTTCTA	CGTCGCAC	DI082	TCCAGAAG	CGTCGCAC
DI011	GCGTCACT	GAGAAGCT	DI035	TAGTTCTA	GAGAAGCT	DI059	CCCACGGT	GAGAAGCT	DI083	GAGCATCA	GAGAAGCT
DI012	TGCAACGG	ATAGCTTA	DI036	CCCACGGT	ATAGCTTA	DI060	GTACAAAG	ATAGCTTA	DI084	CGAGTCTC	ATAGCTTA
DI013	TCCAGAAG	CTCAGACA	DI037	CAACTGTA	CTCAGACA	DI061	GCGTCACT	CTCAGACA	DI085	TAGTTCTA	CTCAGACA
DI014	GAGCATCA	ACTTCGTC	DI038	GCGTCACT	ACTTCGTC	DI062	TGCAACGG	ACTTCGTC	DI086	CCCACGGT	ACTTCGTC
DI015	CGAGTCTC	TGGCTTAG	DI039	TGCAACGG	TGGCTTAG	DI063	ATTGGTAC	TGGCTTAG	DI087	GTACAAAG	TGGCTTAG
DI016	ATTTCGGT	GAAGACGT	DI040	ATTGGTAC	GAAGACGT	DI064	CAACTGTA	GAAGACGT	DI088	AGTGGTCC	GAAGACGT
DI017	TGCAACGG	TCCTTAGG	DI041	CCCACGGT	TCCTTAGG	DI065	GAGCATCA	TCCTTAGG	DI089	CGAGTCTC	TCCTTAGG
DI018	ATTGGTAC	CGTCGCAC	DI042	GTACAAAG	CGTCGCAC	DI066	CGAGTCTC	CGTCGCAC	DI090	ATTTCGGT	CGTCGCAC
DI019	CAACTGTA	GAGAAGCT	DI043	AGTGGTCC	GAGAAGCT	DI067	ATTTCGGT	GAGAAGCT	DI091	TCCAGAAG	GAGAAGCT
DI020	GCGTCACT	ATAGCTTA	DI044	TAGTTCTA	ATAGCTTA	DI068	TCCAGAAG	ATAGCTTA	DI092	GAGCATCA	ATAGCTTA
DI021	ATTTCGGT	CTCAGACA	DI045	ATTGGTAC	CTCAGACA	DI069	GTACAAAG	CTCAGACA	DI093	AGTGGTCC	CTCAGACA
DI022	TCCAGAAG	ACTTCGTC	DI046	CAACTGTA	ACTTCGTC	DI070	AGTGGTCC	ACTTCGTC	DI094	TAGTTCTA	ACTTCGTC
DI023	GAGCATCA	TGGCTTAG	DI047	GCGTCACT	TGGCTTAG	DI071	TAGTTCTA	TGGCTTAG	DI095	CCCACGGT	TGGCTTAG
DI024	CGAGTCTC	GAAGACGT	DI048	TGCAACGG	GAAGACGT	DI072	CCCACGGT	GAAGACGT	DI096	GTACAAAG	GAAGACGT

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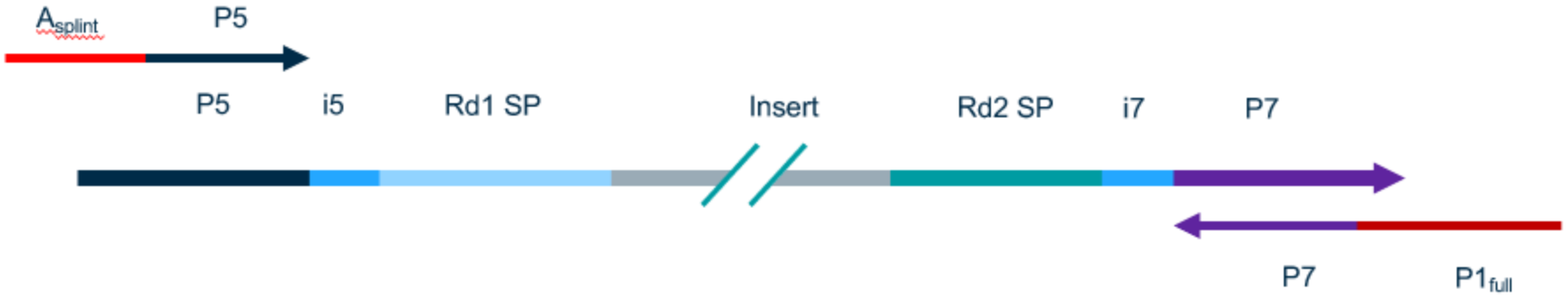
Indexed library control (LQC)

Index Number	Index A	Index P
1	AGGAACTC	TCGTCGTG
2	CTAGTAAG	AAACATGC
3	TCTTGGCT	CTTGGCAA
4	GACCCTGA	GGCATACT
5	AGCTAACT	AGTGACTG
6	TCTCCGAA	CCACTTGA
7	GAGGTCGC	TTGACGCC
8	CTAAGTTG	GACTGAAT

For a standard PE150 run:
Index P is Read 2
Index A is Read 4

Onso conversion kit

One step 5 cycle PCR-based reaction
Adds A/P1 tails to existing P5/P7 ends to enable clustering and sequencing on the Onso system
Deletes a portion of P5 and P7 sequences



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